

09/64677.8

## Sequence Protocol

422 Rec'd PCT/PTO 22 SEP 2000

&lt;110&gt; metaGen Gesellschaft für Genomforschung mbH

&lt;120&gt; Human Nucleic Acid Sequences from Ovarian Tumor Tissue

&lt;130&gt; 51580AWOM1XX24-P

&lt;140&gt; PCT/DE99/01087

&lt;141&gt; 1999-04-07

&lt;160&gt; 307

&lt;210&gt; 1

&lt;211&gt; 2434

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

```

cgggatttta cccggtttaa aaagcgaacc ttctcccggc tacaccgaa ggtacccaaa 60
tatgggtagg tccggttttc caacttggca aacgtatggg gaagcccggg gatggcttcc 120
ataaattttc cagcggatta tggcattcct tccaggaaat acctcttggg aaaggcctgc 180
ttgcaaataat gcatttccaa acttgaaata taggtgtgaa cagtgtgtac cagtttaaag 240
ctttcacttc atttgtgttt ttttaattaag gatttagaag ttccccaat tacaaactgg 300
ttttaaatat tggacatact gggttttaata cctgctttgc atattcacac atgggtcaact 360
gggacatggt aaactttgat ttgtcaaatt ttatgctgtg tggaatacta actatatgta 420
ttttaactta gttttaatat ttccattttt ggggaaaaat cttttttcac ttctcatgat 480
agctgttata tatatatgct aaatctttat atacagaaat atcagtactt gaacaaattc 540
aaagcacatt tgggtttatta acccttgctc cttgcatggc tcattagggt caaattataa 600
ctgatttaca ttttcagcta tatttacttt ttaaagctt gagtttccca ttttaaaatc 660
taaacatagac attttaattg gtgaaagttg tttaaactac ttattgttgg taggcacatc 720
gtgtcaagtg aagtagtttt ataggtatgg gttttttctc ccccttcacc aggggtgggtg 780
gaataagttg atttggccaa tgtgtaatat ttaactggt ctgtaaaata agtgtctggc 840
catttggtat gatttctgtg tgtgaaaggt cccaaaatca aaatgggtaca tccataatca 900
gccaccattt aacccttcct tgttctaaaa caaaaaccaa agggcgctgg ttggtagggg 960
gagggtggggg agtattttta tttttggaat ttgggaagca gacagcttta cttgtgaagg 1020
ttggaacagc agcactatac atgaaatata aaccaaaaac ctttactgtt tctaaatttc 1080
ctagattgct attatttggg tgtaagttga gtattccaca gaaagtggta attatctctt 1140
ctctcttctc ccattagaaa attaggtaaa taatggattc ctataatggg agcatcaccal 1200
cttattaaaa cacacataga atgatgaatt aaaaaagttt tctaggattg tcttttattc 1260
tgccacattt attgataaac agtgaaggaa tttttaaaaa atttttaaga attgtttgtc 1320
acgtcatttt tagaaatgtt ctacctgtat atggtaatgt ccagttttaa aaatattggal 1380
catcttcaat cttaaacatt tctatttagc tgattgggtc tcacatatac ttctaaaaga 1440
aacttttatg ttataagagt tactttttgg ataagattta ttaatctcag ttacctacta 1500
ttctgacatt ttaggaagga ggtaatgttt tttaatgatg gataaacttg tgctgggtgt 1560
ttggatctta tgatgctgag catgttctgc actgggtgcta atgtctaata taattttata 1620
tttacacaca tacgtgctac ccagagatta atttagtcca tatgaactat tgaccattgt 1680
ttcattgaga cagcaacata cgcactccta aatcagtggt ttttagactt tcaagtatct 1740
aactcatttc caaacatgta ccatgtttta taaacctctt gatttccagc aacatactat 1800
agaaaacacc tgctactcaa aacacaactt ctcagtgtca tccattgctg tcgtgagaga 1860
caacatagca atatctggta tgttgcaagc tttcaagata gcctgaactt aaaaagtggg 1920
tgcattagtt gtatctgatg gatataaatt tgcctcctag ttcactttgt gtcaagagct 1980
aaaaactgtga acctaacctt ctcttattgg tgggtaataa ctgaaaataa agatttattt 2040
tcatgctcac ttcttaaaaag tcataaaaaac aatcaaataa gatcatgttt attgtcatgt 2100
gtttcctggg ttctgacctg tgtgcacacc cctgtgtgtt tataattttt aaattgaatt 2160
ttatatgggg tttttatttg ctaaaaacca ggctgttgaa tcacatttgg gaaggggtact 2220
tatcttaatg actaatgact taattgggaa agttgaattc ttgtaaaata caaaatccaa 2280
ggacttcttg ggatttaact taattgtcac ttcgttaggc agatgcactt ttttgataa 2340
tggaagttta agcataccga atgctacttt tgggtgacaa acgggcctaa tagtccgggg 2400
ggaaatccct aacgggtaag ggtcccaagt atgg

```

2434

&lt;210&gt; 2

<211> 798  
 <212> DNA  
 <213> Homo sapiens

<400> 2

```
gcctatattg gaagcagaca gcgatactga tgacattgac cacagagtta cagaggaaaag 60
ccatgaagag ccagcattcc agaattttat gcaagaatcg atggcacaat actggaagag120
aaacaataaaa taggagactt tagcacactt cacttgtttc tagaagtcca gaatttttga180
cctccacgtg aaagaactgt tcttacctct gaactggggg ctcccataag ggataatttt240
cctcagagta gcaaagtttc tcttattaga gaaatcttgt gactcagatg aagtcaggga300
tagaagaccc ttggacctgg caggttaatg ctgattattc cttggccttt cccttgatt360
tatgcaagga aggatatact gagctgatac tcttccaagc ctacaacttc aagttttatc420
atttgaactc aagtactttt gctgctgagg aatggaatca aaagaacgta gtctcctgg480
gaccacctca gatctctatt attaggctag atgtatagcc tctactcccc cagcttcttg540
ctcttgaccc tgcactgtaa gttgcccttc tattagcagc caaggaaaag ggaaacatga600
gcttatccag aacggtggca gagtctcctt ggcaatcaac caacgttgct atgaaatatg660
cctcacactg tatagctcat tataggacgt caggtttgtt gaaaaaagtg ggcaagacat720
gattaatgaa tcagaatcct gtttcattgg tgacttggat aaagactttt taatttttaa780
aaaaaaaaa aaaaaaaaaa                                     798
```

<210> 3  
 <211> 882  
 <212> DNA  
 <213> Homo sapiens

<400> 3

```
attccaaaaca tggcggtcc actagggggt atgttttctg ggcagccacc cgggtccccct 60
caggccccgc cgggccttcc gggccaagct tcgcttcttc aggcagctcc aggcgctcct120
agaccttcca gcagtacttt ggtggacgag ttggagtcac ctttcgaggc ttgctttgca180
tctctgggtg gtcaggacta tgtcaatggc accgatcagg aagaaattcg aaccgggtgt240
gatcagtgta tccagaagtt tctggatatt gcaagacaga cagaatgttt tttcttacaa300
aaaagattgc agttatctgt ccagaaacca gagcaagtta tcaaagagga tgtgtcagaa360
ctaaggaatg aattacagcg gaaagatgca ctagtccaga agcacttgac aaagctgagg420
cattggcagc aggtgctgga ggacatcaac gtgcagcaca aaaagcccgc cgacatccct480
cagggtcctt tggcctacct ggagcaggca tctgccaaca tccctgcacc tctgaagcca540
acgtgagcaa agggcagagg cagttggcct atgagtgggc tgatgctga ggttggccac600
acattccttc ctgtggactt gacattttgg aagaactcct tgccagataa tgagttcatt660
ttagttttat gctccattg aaaaattttc cactattttt ataagctgtt aatttcttga720
gtactttata acatgtctgt agcttgata aaccaagtaa gtattttttt tttgtcttta780
gcaaagttaa gactgtgaat atgatgacac agattctttt ttatggtggc tttgcttggt840
ttaatttttt gcatgacttt taaaaaaaaa aaaaaaaaaa aa                                     882
```

<210> 4  
 <211> 2901  
 <212> DNA  
 <213> Homo sapiens

<400> 4

```
actgagtga gatgaaatca ggacactgaa acagaaaaaa attgatgaaa cttctgagca 60
ggaacaaaaa cataaagaaa ccaacaatag caatgctcag aaccccagcg aagaagaggg 120
tgaagggcaa gatgaggaca ttttacctct aacccttgaa gagaaggaaa acaaagaata 180
cctaaaaatc ctatttgaaa tcttgattct gatgggaaag caaaacatac ctctggatgg 240
acatgaggct gatgaaatcc cagaaggtct ctttactcca gataactttc aggcactgct 300
ggagtgtcgg ataaattctg gtgaagaggt tctgagaaag cggtttgaga caacagcagt 360
taacacgttg ttttgttcaa aaacacagca gaggcagatg ctagagatct gtgagagctg 420
tattcgagaa gaaactctca gggaagtgg agactcacac ttcttttcca ttatcactga 480
cgatgtagtg gacatagcag gggaagagca cctacctgtg ttggtgaggt ttgttgatga 540
atctcataac ctaagagagg aatttatagg cttcctgcct tatgaagccg atgcagaaat 600
tttggtgtg aaatttcaca ctatgataac tgagaagtgg ggattaaata tggagtattg 660
tcgtggccag gcttacattg tctctagtgg attttcttcc aaaatgaaag ttgttgcttc 720
```

```

tagactttta gagaaatatt cccaagctat ctacacactc tgctcttctt gtgccttaaa 780
tatgtgggttg gcaaaatcag tacctgttat gggagtatct gttgcattag gaacaattga 840
ggaagtttgt tcttttttcc atcgatcacc acaactgctt ttagaacttg acaacgtaat 900
tgctgttctt tttcagaaca gtaaagaaaag gggtaaagaa ctgaaggaaa tctgccattc 960
tcagtggaca ggcaggcatg atgcttttga aatttttagt gaactcctgc aagcacttgt 1020
tttatgttta gatggtataa atagtgtacac aaatattaga tggaataact atatagctgg 1080
ccgagcattt gtactctgca gtgcagtgtc agattttgat ttcattgtta ctattgttgt 1140
tcttaaaaaat gtcctatctt ttacaagagc ctttgggaaa aacctccagg ggcaaacctc 1200
tgatgtcttc tttgcggccg gtagcttgac tgcagtactg cattcactca acgaagttag 1260
tggaataat tgaagtttat catgaatttt ggtttgagga agccacaaat ttggcaacca 1320
aacttgatat tcaaatgaaa ctccctggga aattccgcag agctcaccag ggtaacttgg 1380
aatctcagct aacctctgag agttactata aagaaaccct aagtgtccca acagtggagc 1440
acattatttc ggaacttaaa gatataattc cagaacagca cctcaaagct cctaaatgct 1500
tatctctggg accctcagtc atgggacaac tcaaattcaa tacgtcggag gaacaccatg 1560
ctgacatgta tagaagtgtc ttaccaatc ctgacacgct gtcagtgtag cttcatttgt 1620
ggagaatcaa atggaaacac agggggaaaag atatagagct tccgtccacc atctatgaag 1680
ccctccacct gcctgacatc aagttttttc ctaatgtgta tgcattgtct aaggtcctgt 1740
gtattcttcc tgtgatgaag gttgagaatg agcggtatga aaatggacga aagcgtctta 1800
aagcatattt gaggaacact ttgacagacc aaaggtcaag taacttggct ttgcttaaca 1860
taaatgttga tataaaacac gacctggatt taatgggtga cacatatatt aaactctata 1920
caagtaagtc agagcttctt atttgatatt ccgaaaactgt ggaaaatacc taagagactt 1980
ttaaaaaatag gctttcttat atttgatatt tggaagaaaa agccgtaagg tgtatgtaga 2040
ccacttaatc actaaatatt tttgcctata ggactccatt gaatacatta gccattgata 2100
atctacctgt ttaaatggcc cctgtttgaa ctctcaagct ttgaagacct acctgttctt 2160
ccagaagaga acgttgaaa gtcctatggt ccttttgcgt gatctctgtt gatggcactc 2220
tggaatttgt tcagttaagt catttttagc atagcattta ttatcactgt ggatctctac 2280
ttgttgggtg ttatgaattc tttgaagaaa tatattttga agaggtgtgg gaggaaggaa 2340
tacattttat aaaatgttgt agtgaagccc acaattgacc tttgactaat aggagtttta 2400
agtatgttaa aaatctatac tggacagtta caagaaatta ccggagaaaa gcttgtgagc 2460
tcaccaaaca aggatttcag tgtagatttt gtctttcttg aacttaaaga aacaaatgac 2520
aaagtttgaa tggaaaagcc tgctgttgtt ccacatctcg ttgctgttta cattcctttg 2580
tggagcctac atcttcttaa gcttttttagc aggtatatgt tgaacacttc tgtttcatgg 2640
ttgagacaga atcagaggcc atggatactg acaactgatt tgtctgtttt tttctctgt 2700
ctttttccat gactcttata tactgcctca tcttgattta taagcaaaac ctggaaaacc 2760
tacaaaataa gtgttgtggt ttatctagaa aaatatggaa aatattgtct ttatttttgg 2820
tgaagaaaat caattttgta tagtttattt caatctaaat aaaatgtgaa ttttgtttta 2880
aaaaaaaaaa aaaaaaaaaa a
2901

```

<210> 5  
 <211> 579  
 <212> DNA  
 <213> Homo sapiens

<400> 5

```

aaagaaagag aaagaaagaa aagaagattg tagctagggg gagagtaggt gaaaagatga 60
acaacatgac cgggaagatt tcctaattct accacagcct ggctctacct taagtcttta 120
ataaaaagctt gactgaaggt accaaggtgt gctgaagtgg aagcaaagtt ctccaaagtc 180
cagcatggta gacatcagtg gtggtaacca aggacagacc ccaaggcaag gtgaacctca 240
aaaatggaac ctcaagtcta tgcagtccag ctgccctccc caccagaaag tccttgttcc 300
agcccaacat cagtgcctct gagtttgttt actagaaaca aaggaagaat ttccttgtaa 360
aaatatagac agagtagtcc ctggctttct cctcttgtag gaaggatgga ttctccatt 420
ccataccatc tttccccac actggcccca gaaatactta attcaactat gtgaaaataa 480
agattgtttt tggtttgagg gcatagggat ccatttatcc ttattcttta tgaggcacta 540
aattagcttt gtatgttatt aaatgtgtct cgtcaatgc
579

```

<210> 6  
 <211> 2809  
 <212> DNA  
 <213> Homo sapiens

<400> 6

```

gcagggcctc gtgccgtttg cataaatagg tttctcact cttctttttt tccttctttt 60
atccctcact cctccccccta aaccctgctt cagcacaatg gactaattct agcattctga 120
tcataaggcc ctccattttt ctaatgtgtt tcaaggaatc tttttaggaa aaatatccag 180
attattcatc cacttttttt agtatctact aacaactcct tttttctct agagagtatt 240
gaaggaacag gttgtccttg tctggagtca agctaaccac atgatttggt ttatcagcag 300
ctggagcaga agttgaaaat gtctttctgt gagacagtaa tttgctactg aagctttatg 360
gcttgtttgc actgattact ccaggatcca aaaacttggg gaaagtcact gaaacactca 420
aggcaaatta ctttacagcc ctgagtgtct gtcaccatag tttgcataat gaatatgaat 480
cccattgggt tgtgatgtag gaaatcctgt agttgtatgt tcttgaactg aaatatgtga 540
ctcaaaataa ttaagactca ttgtcatttt tcatcttggc attattgtgg acaagttgac 600
atattaaatc tctttgcttt ctggtaagct tagcttttaa aatgcatttt cccttgcctt 660
gtctttaact agatatacat gcttatattt atagtgggtt tcacagacta taaaattgaa 720
tgtatgaaat ttttatttat atcagtgtct ttaataatga agatattttt ggagttaagg 780
tgctgtcttg tagcgagtta ttaatcatag taagattttt ttctcttcat ttgctttttt 840
tgtttcatat taacaatttt ttttttacac ggacacaacc ctctgacagt ctttccaaat 900
attaaaatca tttgaatatg tatgctgtga tctgaacact gctcaagcca tcaagcagtc 960
ttcatacagt ttgcattata aaatctcatt aaattctcca agaaaaata agttgaagaa1020
ttttattttc tgaccatgca tcccctggat ttctgagttt cagttcagat tgtagatgac1080
aatataagct gccttccgaa attgtcaaca tctgaatggt aagtcatttt tccccatgga1140
agaagcccggt agttccatga agtatggatt accatttgta tttttcacta acagtaaatg1200
tatttttctt attaatgtgt tgcccttagga atgatgaatt acattttttg ttcttctt1260
ccataaacat ctgcattcct cagctcagcc ttcttgtat gttgtttctt tataaatggt1320
tgagctgctg atgcagggtat tgccaagcta acagtacaaa tcatttttaa gaggaagctg1380
gcgcgtatgg cagccgagga gcacactctg caggacactg gacaagacag taaatattca1440
acttttaatt ctgattaaag gagtataggg aaagaatacg taggtataca taattggtga1500
gacaaatatt cactttattag atatttttata tattattttt ttaatttggt aaatactatc1560
cagtttttga gttgtccttg ttgatttggt tgatattaaa gtattagtaa taattgccag1620
gaaactatca ttagggagggt tttagttggt tgctgtttgg actgggagggt atgatttaaa1680
tttagtgcta gaaaccaatt ttagtgactg cacagtttat catttgtcag acagaaggtat1740
gctataaagc taccctgtaa gtcatatcaa aaaagttcag aggaagatta gtaaatattt1800
atcaataaaa ataaacattt tgtttttcta atatcttaac atatcctccc ctttaggagg1860
aagaacgtgc aaaacgtgag gagctagagc gaatactgga agagaataac cgaaaaattg1920
cagaagcaca agccaaactg gccgaagaac agttgagaat tgttgaagaa caaagaaaga1980
ttcatgagga aaggatgaaa ctagaacaag aacgacaacg tcaacaaaaa gaagaacaaa2040
aaattatcct gggcaagggg aagtcagggc caaaactgtc cttctcatta aaaaccagg2100
attaaattgc aaactctgaa ctttttacaa agaaaaatgg aaaaactttg tatggttagct2160
tcatgttgaa gtggtttttt gtttttggtt ttgttttttt aatttgtaaa atctggaaag2220
ttagcttggt ctaatagggg ctatgctctg caattccctt tttttttttt ttttttctt2280
ccactaagtc aaatccttat cagatcattg ttgtattcta aggagtgcag tattttcac2340
ctgtttggtg tctatatag tggtctgagc aagagcagat cacattgtaa aactatggat2400
ggctctgataa ggcttttact gacccactg acttcagagt tatactctgt ttgctacatc2460
ataatgctgg ttttgctgac tttttgtttt tttatatatt tataaaaaaa gaaaaagt2520
gtgattgcat tgggaaattc ccagggtatt actggacctt tgtggtgtat tggtaaacca2580
gtgtccttgt gatactgttg ctcttgatgt tcctgataca ggtaaggaaa cagttggtca2640
actctgatac aaagtatata tacagttcag tattgtctct gttcattttg tttttatttc2700
attgacaaaa tcaaacacagc attccccatt gtgtaataaa atgattttgc tgaataaagt2760
aaagtcttaa attcaaaaaa aaaaaaaaaa gaaaacaaaa aaaaaaaaaa 2809

```

<210> 7

<211> 910

<212> DNA

<213> Homo sapiens

<400> 7

```

agttcggcac agagaaagta ttttaacctt cctgtagaga tcctcgatcat ggaaaggtgc 60
caaactgttt tgaatggaag gacaagtaag agtgaggcca cagttcccac cacacgaggg120
cttttgattt gttctacttt ttccagccctt tactttctgg ctgaagcatc cccttggagt180
gccatgtata agttgggcta ttagagttca tggaacatag aacaaccatg aatgagtggt240
atgatccgtg cttaatgatc aagtgttact tatctaataa tcctctagaa agaaccctgt300
tagatcttgg ttttgataaa aaatataaag acagaagaca tgaggaaaaa caaaaggttt360
gaggaaatca ggcatatgac tttatactta acatcagatc ttttctataa tatcctacta420
ctttgggttt cctagctcca taccacacac ctaaactgtt attatgaatt acatattaca480

```



```

aagtcataaa tgtgccatat ggatatacag tacattctag ttggaatcgt ttactctgct540
agaatttagg tgtgagatgt tttgtttccc aggtatagca ggcttatgtt tgggtggcatt600
aaattgggtt ctttaaaatg ctttgggtggc acttttgtaa acagattgct tctagattgt660
tacaaaccaa gcctaagaca catctgtgaa tacttagatt tgtagcttaa tcacattcta720
gacttgtgag ttgaatgaca aagcagttga acaaaaatta tggcatttaa gaatttaaca780
tgtcttagct gtaaaaatga gaaagtgttg gttggtttta aaatctggta actccatgat840
gaaaagaaat ttattttata cgtgttatgt ctctaataaa gtattcattt gataaaaaaa900
aaaaaaaaa 910

```

<210> 8

<211> 1447

<212> DNA

<213> Homo sapiens

<400> 8

```

gcgacggcgg cttagaaagt gottcctgga gcgcagacga ggtcatgaat catgtgacgg 60
tggcttgagg aggaacctgt ctttaaagct gtccctgaag tgacagcggg gagaaccagg 120
cagcccagaa accccaggcg tggagattga tcctgcgaga gaagggggtt catcatggcg 180
gatgacctaa agcgattctt gtataaaaag ttaccaagtg ttgaagggtt ccatgccatt 240
gttgtgtcag atagagatgg agtacctgtt attaaagtgg caaatgacaa tgctccagag 300
catgctttgc gacctgggtt cttatccact tttgcccttg caacagacca aggaagcaaa 360
cttggacttt ccaaaaataa aagtatcatc tgttactata acacctacca ggtgggttaa 420
tttaatcgtt tacctttggt ggtgagtttc atagccagca gcagtgccaa tacaggacta 480
attgtcagcc tagaaaagga acttgctcca ttgtttgaag aactgagaca agttgtggaa 540
gtttcttaat ctgacagtgg tttcagtgtg taccttatct tcattataac aacacaatat 600
caatccagca atcttttagac tacaataata cttttatcca tgtgctcaag aaagggtccc 660
tttttccaac ttatactaaa gagctagcat atagatgtaa tttatagata gatcagttgc 720
tatattttct ggtgtagggg ctttcttatt tagtgagatc tagggatacc acagaaatgg 780
ttcagctctat cacagctccc atggagtttag tctggtcacc agatatggat gagagattct 840
attcagtgga tcagaatcaa actggtacat tgatccactt gagccgttaa gtgctgcaa 900
ttgtacaata tgcccagggt tgcagaataa agccaacttt ttattgtgaa taataataag 960
gacatatatt tcttcagatt atgttttatt tctttgcatt gagtgaggaa cataaaatgg1020
cttggtaaaa gtaataaaat cagtacaatc actaactttc ctttgtacat attattttgc1080
agtatagatg aatattacta atcagtttga ttattctcag aggggtgctgc tctttaatga1140
aaatgaaaat tatagcta atgtttttcct caaactctgc tttctgtaac caatcagttg1200
tttaatgttt gtgtgttctt cataaaattt aaatacaatt cgttattctg tttccaatgt1260
tagtatgtat gtaaacatga tagtacagcc atttttttca tatgtgagta aaaaataaat1320
agtattttta aaaatataaa aaaaaaaaaa aaaaaataat tttttgttc agactttttc1380
caaaaatcta aacataatta atatactctt tcagccacat gaataaataa tgagtgtttc1440
ttgtaaa 1447

```

<210> 9

<211> 671

<212> DNA

<213> Homo sapiens

<400> 9

```

agcgcggtga agcggggggtg ggatctgaac atggcgggcgg tggtagctgc tacggcgctg 60
aagggccggg gggcgagaaa tgcccgcgtc ctccggggga ttctcgagg agccacagct120
aacaaggctt ctcataacag gacccgggct ctgcaaagcc acagctcccc agagggcaag180
gaggaacctg aaccctatc cccggagctg gaatacatc ccagaaaagag gggcaagaac240
cccatgaaag ctgtgggact ggcttgggct atcggttcc cttgtggtat cctcctcttc300
atcctcacca agcggggaagt ggacaaggac cgtgtgaagc agatgaaggc tcggcagaac360
atgcggttgt ccaacacggg cgagtatgag agccagaggt tcagggttc ctcccagagt420
gccccgtccc ctgatgttgg gtctgggggtg cagacctgag gagcgctgcg accctcctag480
gctattgact gttaaagtcc caggtttggc ccagattcca gttcgtgcct ctgaggtcca540
ccagagggcg catgaagccc aggtgttgc caaacctac cctgccccac accaaggagc600
ccaccaagg caataaaagt tattgagtg ttagtagaaa ggaaaaaaa aaaaaaaa660
aaaagtcgac c 671

```

<210> 10

<211> 803  
 <212> DNA  
 <213> Homo sapiens

<400> 10

```

gaagatgagg tggaagaaga gtcaacagct ttgcaaaaaa ctgacaaaaa ggaaattttg 60
aaaaaatcag agaaagatac aaatttctaaa gtaaaaccca aaggcaaaagt tcgatggact120
ggtttctcga cacgtggcag atggaaatat tccagcaatg atgaaagtga agggctctggc180
agtgaaaaat catctgcagc ttcagaagag gaggaagaaa aggaaagtga agaagccatc240
ctagcagatg atgatgaacc atgcaaaaaa tgtggccttc caaaccatcc tgagctaatt300
cttctgtgtg actcttgcgga tagtggatac catactgcct gccttcgccc tcctctgatg360
atcatcccag atggagaatg gttctgcccc ccttgccaac ataaactgct ctgtgaaaaa420
ttagaggaac agttgcagga tttggatggt gccttaaaga agaaagagcg tgccgaacga480
agaaaagaac gcttggtgta tgttggtatc agtattgaaa acatcattcc tccacaagag540
ccagactttt ctgaagatca agaagaaaag aaaaaagatt caaaaaaatc caaagcaaac600
ttgcttgaaa ggaggtcaac aagaacaagg aaatgtataa gctacagatt tgatgagttt660
gatgaagcaa ttgatgaagc tattgaagat gacatcaaag aagccgatgg aggaggagtt720
ggccgaggaa aagatatctc caccatcaca ggtcatcgtg ggaaagacat ctctactatt780
ttggatgaaa aaataataac ggc

```

803

<210> 11

<400> 11

000

<210> 12

<211> 828

<212> DNA

<213> Homo sapiens

<400> 12

```

agcactttcca ggctgggggtg tttgttttga ctggagaagg gaggcggcgg gcgaaggcac 60
gtcagagcggg ggagcggcgc tgctgttggg gatccgcgga ggccgacagg attcgttggc120
tgccgtcccc gctgctgtgc attgggttaa aaacgacaac caacatcagc catgaaagat180
ccaagtgcga gcagtactag cccaagcatc atcaatgaag atgtgattat taacggtcac240
tctcatgaag atgacaatcc atttgcagag tacatgttga tggaaaatga agaagaattc300
aacagacaaa tagaagagga gttatgggaa gaagaattta ttgaacgctg tttccaagaa360
atgctggaag aggaagaaga gcatgaatgg tttattccag ctcgagatct cccacaaact420
atggacaaaa tccaagacca gtttaatgac cttgttatca gtgatggctc ttctctggaa480
gatcttgttg tcaagagcaa tctgaatcca aatgcaaagg agtttgttcc tgggggtgaag540
tacggaaata tttgagtaga cggggccctc ttttgggtga tgtagcacia tttccacact600
gtgaaggcag tattagaaga cttaattgta aaagctctct tgtcactgtg ttacacttat660
gcattgccaa agtttttgtt agtcttgcac gcttaataaa agtgctgaga cacttggttac720
ctaagtaaaa agcctggtcc aaaccatttt actgggaaaa taggattggg gccccatggc780
cttggatggt ggaagaccgc caaggggaag gaaccaccag gcccaagt

```

828

<210> 13

<211> 552

<212> DNA

<213> Homo sapiens

<400> 13

```

ttggttttccg ggcaccaacca atgtgggagc tgtaatagta agagcttcct aaccaaaagct 60
tggattatacc gtgtggggtt tcgttttttt cgtgggtggt tatttgattt tgattttttt120
ttctttttatg tgatcttttg gaaaacacat tcagaattat atctcgtttc tacttaaagt180
tagtgcttag ggtaattttt ttgtactgaa gtctttattg gtgggtgcat gctactggga240
acaagttttt gtacaaaagc ttcaatcaga atcactgtgc attactgaga ctctgtttat300
cactagcctt ctgtccctcc cgagaagac tgttggtatt aacaaaataa tatgtatttt360
gatttactta aagtgtttgt aaatttctta gggacctgcc acttttgact gtggatcagt420
tgatgtacac ttgtattatt aaagcactca ataaatcact gtggctgata actgcaaaaa480
tgggaacccg acatttgctt tgtgtcctgg tgaccgtgt agccctacgt gcagtggagg540

```

cttgtctaatt tc

552

&lt;210&gt; 14

&lt;400&gt; 14

000

&lt;210&gt; 15

&lt;211&gt; 993

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 15

```

gcggtatttaa tatttaattt atttttttta cttataggtc atgttgatgt ctatgataaa 60
cagatgtttt gcctctgaca gcagaacttc ctttcatttt tctcattcgt tttctttgggt120
gggttcattt ttttgaatca accacacttc attattttcta ttaagcaatt tgacaggact180
gtttagacct gcagtgtagt aaacctttctc atcgaaaact tttccatctt cccttaaaat240
gcttgctaatt gtcaaaaagtt gttcttgatt cttttgggca ctagaaaatc catcgaaaaga300
ccgtacaaac acagtcattt cggctctatc ttcaatgaag acatctgact ctaaaaggcct360
gggtggatca aattgctggt cagaggggaat atacagggaa atggtaatgg tagactcact420
aaaaggacct gaaccaggct ccacgtagct tgtcactgga gctgtcatct ttattttcat480
ctctttctcg tttttgcctt gaatgtagct gttcagtttc gtaaagcccg tctggatggc540
tgaatcccag tccatagact ccacggacgt gctgacccac ttggctgggt catagtgtcg600
gatctcataa cttccgggct gggggccggc gtctccggg gccttccagc ccggcgtctc660
cacagcttgg gccgccgcgt cctcggccgc cccgggggtct ggctggagcg gctcggccat720
gggcggcggtg acgctctggg agcctggtca gccgcgcaga ggccccgcac cccggggccgc780
cccgcctgag tgtgcgcgcc ccgccgaggc cccgagtcct cctccgcaga cccggtcctc840
cctccgggcc gggctggaga cccgagccca cccgatgcgt ctgcctctgg accgcagggg900
ggcgccgcca ccaaggcggg gccggctcac gaccccgagc agctccggcc ggagttgcgc960
gtcttgcccc cgcccccccg cggcgacagg gag
993

```

&lt;210&gt; 16

&lt;211&gt; 2273

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 16

```

ctgcacctta gaaaaaaaaa gaaaaaatcaa aaaaacaaaa aaacaaaaac aaaaaaagaa 60
ggaaaaatctt ggaggggtggg cgtgggaact caggacccca gaggggcgag tgggtgtgggg 120
agggagagcc tctctccccc ttttctgtgt gagaggaact cttagtgtct ggtgcagcta 180
ttaaatgtgc aatgtgtcaa gtagcttggt ttacacgcta caacatagct catttgtaac 240
ccattgtata agctgtgtat ttacaaatat aacacaacaa tttaactttt ccttagaata 300
caaaaagtca tgcattggtct ggggaactat atgcttttcc atttttaagt caggactgca 360
atactgattc cagttaatga gcagctaaga tccaatctgt ctaatacagt gaccccttag 420
ccatccgggc ctggcaatat acaatttttt ttcccctcca agtttgtaac actccccttc 480
cagaaaaggca ttgtgcaaca caggattatt tttaaagat tctgaatttg aattaacttt 540
ttggagaatt ctgtgatgcc cttagaagaa attggacacg tattgagtgt cacaaagctg 600
gggctgggaa ttgctgggtct aatgtttcat tagacttaag aacctaaaat ttttctcagt 660
tgggtggata aaaccactaa cgcttagaaa ctgttttctc atgcagctat gtttctctta 720
tttatgcctt gaggactaat ttctggtttt ctagctgtta atgcactgtt gaccttcata 780
atgggtgcctt acgcaagcga tcccttctgt gggggtctca tacaggggtg tgggcgatgc 840
atgctttatt aaggctcttg tttcacctgg cagtgtactg tatcaacgta taatacagaa 900
aaaaaatctc tttaagggtcc tccctcacaa agacatagag tgaaactccc tttacatgtc 960
agtatttggt caacacttta ggcaacttga ctgtcagtg taaaatggaa aacaggaaaa1020
tggaaaaaat tgaccaattc tgccaccttg agactttcat atagaccttg cacaacaatt1080
gtatagatca cacaccggct gtatttaata tgtaacattt tcacacatat taaagataca1140
gaagtattaa aaaaccccca atgttaatgt atttgcttaa aaggcacaag tttcacatat1200
ctgtctagct atctgttggt aatacagaaa gtatactact tttttaaaaa agtgggcaga1260
attcttgtgt atgtatatatt gtgtgtacag tatgtgtatg tgtgtatata tatatattat1320
atatatagat aatatataaa tttttttttt aaggagaaac tagaatgttt agctagaaaa1380
ttccacagcc tgtgaagaaa tttttcaaaa tggccataaa ggaggtaaaa atgaaaacca1440
taacctaaact tttatagagg ctttatcttt aatttaacga tgtgcggagg actttcttgc1500

```

```

ttgaatctgt tccgggctgt ctgctctgtc catcaaattg gcaggctctg aatggggcac1560
cttcggccgt tcagaagtgg cctgaacaga atgctggaac ccaggctgga ctccggacaca1620
ctaagggtttt gattttgaat ttcagcctta ttagaagatc taacctaga gtaagctaac1680
cacagggtatt cttttgtaga acacttttta tgcagatgaa gctatttttt ccagcaagta1740
gattcttcca gtttttccaa ggagtaattt ccccggaattg gcataccacg gcgtggacag1800
ctgatatttc acccagctgc tggcttggtg gtgtggctct ttgctttata tatatataca1860
cacatgtgag tctggctggg ctgggtatttt gtttgatctt cctggaaatg agcagtgaact1920
aacgctcaca taactggttt tttttttatc tgggctgatg aatacattta cctaagaaac1980
tcatttcggt ttacttaaga ggggaagtgc agttttcttt tggcagttca gaatccaagc2040
acttgatttg ctgggttttg aaaactcctt ttttggcctt ctatgtgctt agccataaca2100
attccattaa gcaagaaggt aagcaaaaaga caaaaaaaa aaagggaaaa aaaaaaaact2160
tgcacgggct tgtctcactt acgaaacatg tcggagctgt ttgcctgggt ggggctgggt2220
accgtacctg tcaatgctg ggattttcca taaatttagc acgggacata aag 2273

```

<210> 17

<400> 17

000

<210> 18

<211> 986

<212> DNA

<213> Homo sapiens

<400> 18

```

gcgcgatata aacagttgga agagaaaatg gtacagcagt tacaagagga tgtggacatg 60
gaagatgctc cttaaaaatc tctgtaacca tttcttttat gtacatttga aaatgccctt120
tggatacttg gaactgctaa attattttat tttttacata aggtcactta aatgaaaagc180
gattaaaaaga catctttcct gcattgccat ctacataata tcagatatta cggatgttag240
attgcatctc agtggttaaatt ctttactgat agatgtactt aagtaaatca tgaaaattct300
acttgtaact atagaagtga attgtggacg taaaatgggt gtgctatttg gataatggca360
ctaggcagca tttgtatagt aactaatggc aaaaattcat ggctagtgat gtataaaata420
aaatattctt tgcagtaaaa tattcccttt gttaatgtta tagaaggggg gatacaaaaa480
ggaactaaca atttgtatgg cagtgtcaga tatttttatt ttagtatttc ctgttttggg540
ttatttgcct cttagaagag cataatgaca ttgtttgatg aagcctaatt atgctggact600
gttttgacct ggtttaaccc ttctgatagg tagttgtgga tgctggggat gagaactgaa660
taatctttgc ctggagtgc actacactct agaatttcca ctttggagaa tactcagttc720
caacttgtga ttcctgatag aacagacttt acttttctag cccagcattg atctagaagc780
agaggaatcc cagcgccttt taaaagttgt tatgtgggtt tcttttaaaa agctcctgtt840
tttgaaaagt agaatttatg ggtacaacgt atgttcatta tttgtacata aaataaaaaacc900
atttaaaaag ttaaaaaaga aaaaaaaaag gggggaaaaa aaaagagaaa aaggaaaggg960
aaaaagaaaa aggagggggag aagaga 986

```

<210> 19

<211> 526

<212> DNA

<213> Homo sapiens

<400> 19

```

gcgtctatat tacatttatt gacactggat atttattatc tgttatatac caggcaaaat 60
ggacacacca tcaggagata agacctgtat cttacgtgta agatgaaact tatgcaaaag120
gcacagaaca aattatttgt tcacagttac ttttaactct ttcagcaatg cctgagtcct180
ctttatagaa acttcatttt gctaagttag caaccattca ttttttgggt tactcttcat240
gtatagtttt ctcaagtgtc tcttcaaata ctgcataatg gtatagacca tttaatattc300
caaacataat ctgaaagact agaggaatcg ccattaattt catttgtgtt tgacaaagcg360
tcacccaatg gattaaaaacc cttccttttg gtggcagtg aacgggtatg tacctaaaaa420
gaaaaaagag ttaatcacct ctctgggata tgaatgctat tagaagtttg ttgactttctc480
ctaaattgat aattgccttt ctagatctat aatgtagaga gcaaaa 526

```

<210> 20

<211> 1765

<212> DNA

<213> Homo sapiens

<400> 20

```

tttttttttt tttttttttt gctgtttttt atttatattt gattgttgtc aaataataat 60
ttatttttaa aaaatctcaa aacatgttca aacacattca gtagcaaaga tccaccattg 120
gcacacacat taagaaagca cacacactag gcttctagtt gggctaatta aaatctctat 180
ggctggaaag gtggttggtt gtacttaatt aagctttttt gaagtgcata gctatgcata 240
acagatgagc ttgaaagctg cagagtttaa gatagactta atttttcatg attttcccaa 300
agccagtcac gatattttat taatttgtgg tcttcagggt gcaccaatcc catgaagctc 360
aattggatac ttccactgct ttgtcaggta ttcactctgag aacttgacaa tgggtttttgc 420
ccgaagatcg tagagaccaa gaggtttaag aagttctgac acatctctcc agtctgcggt 480
tcttgctacc tcagctgaag gatacttctc cagaaacttc caaagcacag gtattgccat 540
tttgctgag gtccgattga gaaatatagt agcgatgaga agcttccatg gatcatgaaa 600
aagtgtttct tgaacgagat taaaagggtg ccgaggagggt gtccatttct taaaggcttt 660
acgtcgtggg gggctaagag cttctttgtt atatttgcgt gaaaaatata ggcttgtttt 720
ccttctttct atctgtgttc gtgggatggt atcttcagtg aagtctttcc tggttggtga 780
gcagttgttg tccatttcag agccacgttt taaaatgtca gtatgcaaat gttctttcct 840
ttccacaact tctacttttg ttccgatttc ttcagattct aaaaagggtat cctcatactt 900
ctcgttgtgt tctgagtcct tggctgaaca aaatttgttt atgatgccag aagttttttg 960
ttcagaacaa aaatttgatc ctgaactcaa tgatctttct ttttttttta caaggctgtt 1020
ttcttctact gtcacactga gggctctcacc acatgctcca gcatcagaaa tgcagacagt 1080
tctatcaagc tgactttttt gtgcaacagg ttcactttca gcatctgctt tattacacac 1140
agattctctt ttgctatcac tttgaacaaa acctgaacag ctcttctctac atcctttttt 1200
agttttctta attgggattc ctttcaaaat agtcaccttt cctttgggct ttctaacctt 1260
tctgaagtta acatcatcaa caccctcatc ttctttcaaa agcaaatgag tggaaagtaa 1320
gttagagagt cctctgctct cctgcaactc tgaactacta cttggcggca taaacacatc 1380
ctttttgcac ttgcttcggg tcttgagggt ccagtttgaa ttgttacttt gggtttgtag 1440
atgggatgct agggctgcca tgctgcagtc tttatatctt gacttgatac cccttttaga 1500
aagtacagta aaatcaaaat cttctggcct aagagaagtc tctccatttt tgtgaagata 1560
attagcaagt gaacttttgg atctgaactt cagtccttgt gggctagaaa atgatattaa 1620
aggaaactta ctgctagtaa atagaaggga cttttaaaag aactggacca catttcagat 1680
ttctaattaa ttccaaatg ttgccatagg tatctgtcat taaaaaatga aaaagagtga 1740
taaattggcac ttttaaatgg tttcc

```

<210> 21

<211> 746

<212> DNA

<213> Homo sapiens

<400> 21

```

gttttttttt gttttcttta aatttggatg tctctacacc actcctgatt tgtaggacta 60
aatagatcta tttattccaa tgcaaattgt gtaacattta tttcttctt gatttttaaa 120
aatacttttag tattcttaac tatgtatgtg ccttctctta cactgagttc ttttttgcct 180
ctttcagctg ctccacacaa cctgtctgtt ggagtcatag ctgctaattc catattattt 240
ctctacacac cttgaacatt tagtgtatta ctggtagcct tctgtgttct aggaaacaaa 300
tgaattgcaa actggacttg taacaggatc atacatagag caacaaatta gctactggct 360
ttgtaagata gtaagttagg aatttcacag tcatgtctcc aaatttcatg gcagagttta 420
aaaaacaata taagactgtg gtaaggtaca aacgcaaatt caatttgcgt tgactaattt 480
cctaggactt atttctttat gtaaaacccc tgttctttct ttcctgccac aagacagggt 540
acaaagcttt ctaaaacatg ctctcagggt tccacacctg agacattgct ttgtggatac 600
tctcaaagggt gtccacaaaag caaaaaaatc agaccaaatt ctaagagcaa gtaacttata 660
cctcaccacc tggacatggc actggcaaaa gtcacttcag cattagaaca gtaatgtttt 720
tgctaaatta ctaaaataat agccgc

```

<210> 22

<211> 659

<212> DNA

<213> Homo sapiens

<400> 22

```

agcagactca caccagaact acattccctg gccccctgcc tgtgtgcttc tggccaggcc 60
ttgggttggca agtctgaccc gagaaaagga tctgcagaaa atcagactat gggatcactt120
tgttttggca ttgggaatga cattctttcc cccccagga aaacctttgg gactttcaga180
gacattgtgg ctagccaacc acatggtcag cctcaaagtt gagaggctca gtaacctctc240
tatccctaga gaattccaaa gtgtggatgt aatttaacta gaaagccatt ggtgactatc300
tgtgatccctc tggaagtatg ctatgttgtg tatactttgc atccaaagcc agaggggaacc360
acaatgacta gtaaaacggg ggtctcaatg cccacttagc ctctgcctct gaatttgacc420
atagtggcgt tcagctgata gagcgggaag aagaaatatg cattttttat gaaaaataa480
atatccaaga gaagatgaaa ctaaatggag aaattgaaat acatctactg gaagaaaaga540
tccaattcct gaaaatgaag attgctgaga agcaaagaca aatttgtgtg acccagaaat600
tactgccagc caagaggtcc ctggatgccg acctagctgt gtcctcaaatt cagttttca 659

```

&lt;210&gt; 23

&lt;211&gt; 357

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 23

```

cgcagtgcgc agccgtgggg ctctctcctt gtcagtcggc gccgcgtgcg ggctggtggc 60
tctgtggcgc cggcgggcggc aggactccgg cactatgagc ggcttcagca ccgaggagcg120
cgccgcgcgc ttctccctgg agtaccgagt cttcctcaaa aatgagaaaag gacaatatat180
atctccattt catgatattc caatttatgc agataaggta aggcattcctt gtttttggac240
acagtctctt tactcagatc agctagttct acatatgaat tttcttatat gtctctcaac300
aagtgtctaa aatgcctcgt tgtgctgtga gtaaagggtct gttgattagg ctggggcg 357

```

&lt;210&gt; 24

&lt;211&gt; 890

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 24

```

cggaggcagc ggaaagccga gccaggcgcc tgcgcgtgag gaagagtagg ttcagagtgc 60
attccggaac ccggggcgcg gcgcactgcg caggcgggcg gactccgctc agtttccggt120
gcgcggaaca ccaaagtccg ggaacttaag cattttcggg ttctagggtt gttacgaagc180
tgcaggagcg agatggaggt ggacgcaccg ggtgttgatg gtcgagatgg tctccgggag240
cggcgaggct ttagcgaggg agggaggcag aacttcgatg tgaggcctca gtctggggca300
aatgggcttc ccaaactc ctactgggtg gacctctggc tttcatcctt tttcgatgtg360
gtgggtgttc tctttgtgta ttttttgcca tgacttgttc gctgatattc aaattaagaa420
gttgggttctt gagtgaattc tgaaaatggc taaaaacttc ttgaataaag aagacaggac480
tctcaataga agaatttcac atctccaagg gaccttcctt ttcattttac actttgttac540
taatttgcag aactctatta attgggtagg atttcaccca ttcttagcta agttcttaaa600
attaaacctt ttgggtcgtg tttaaaaact ttcaaaccat tgatggcttt acaggggctg660
aatataaaag catttgtact taaagggtct gtgtattcat taagaaatat agtaatgtct720
tttaattgtt taagagtga tcaggggtta ctatggatgg caagtaatat ggatgattaa780
taaggggaag gtttttatgg aatttcaaaa gtcaatttat ttcaaaagcg ggggaaaggg840
ttttgagagg agggggggccc aagggtgtcc tgggggttgc cgaggggaggc 890

```

&lt;210&gt; 25

&lt;211&gt; 651

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 25

```

gccgtatatt gcatactaca tcagcaaaag gtgttgcggc tttataagcg ggcgctacgc 60
cacctcgagt cgtgggtgct ccagagagac aaataccgat actttgcttg tttgatgaga120
gcccggtttg aagaacataa gaatgaaaag gatatggcga aggccaccca gctgctgaag180
gaggccgagg aagaattctg gtaccgtcag catccacagc catacatctt ccctgactct240
cctgggggca cctcctatga gagatacgat tgctacaagg tcccagaatg gtgcttagat300
gactggcatc cttctgagaa ggcaatgtat cctgattact ttgccaagag agaacagtgg360
aagaaactgc ggagggaaaag ctgggaacga gaggttaagc agctgcagga ggaaacgcca420

```

```

cctgggtgggc ctttaactga agcttttggcc cctgcccgaaggaaggtga tttgccccca480
ctgtgggtggg atattgtgac cagaccccgaggagggccca tgtagaaaga gagagacctc540
atctttcatg cttgcaagt aaatatgtta cagaacatgc acttgcccta ataaaaaatc600
agtgaatgg taaaaaaaaa agtgccattg tagtatgcaa taataagcgg c 651

```

&lt;210&gt; 26

&lt;211&gt; 1256

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 26

```

ctcgagccga attcggtcgc agcttttcac tgaccatcca tatccaatgt tctcatttaa 60
acattaccca gcatcattgt ttataatcag aaactctggc ccttctgtct ggtggcactt 120
agagtctttt gtgccataat gcagcagtat ggagggagga ttttatggag aaatggggat 180
agtcttcatg accacaaata aataaaggaa aactaagctg cattgtgggt tttgaaaagg 240
ttattatact tcttaacaat tcttttttca gggacttttc tagctgtatg actgttactt 300
aaactatcta aaatagagca ttttggtatc ttcatctga ccatccatat ccaatgttct 360
catttaacaa ttaccagca tcattgttta taatcagaaa ctctggctct tctgtctggg 420
ggcacttaga gtcttttgtg ccataatgca gcagtatgga gggaggattt tatggagaaa 480
tggggatagt cttcatgacc acaataaata aaaggaaaac taagctgcat tgtgggtttt 540
gaaaagggtta ttatacttct taacaattct ttttttcagg gacttttcta gctgtatgac 600
tgttacttga ccttcttga aaagcattcc caaatgctc tatttttagat agattaacat 660
taaccaacat aatttttttt agatcgagtc agcataaatt tctaagtcag cctctagtcg 720
tgggtcatct ctttcacctg cattttattt ggtgtttgtc tgaagaaagg aaagaggaaa 780
gcaataacga attgtactat ttgtaccaa tctttgggat tcattggcaa ataatttcag 840
tgtggtgtat tattaatatg aaaaaaaaaa ttttgttcc taggttgaag gtctaattga 900
tacgtttgac ttatgatgac catttatgca ctttcaaatg aatttgcttt caaaataaat 960
gaagagcagc tgtccttctt tctcttttta agtggtcagc tgtggcatgc tcagagggttc1020
ctgctggatt ccagctggag cgggtgtgata cccttctttt tcagctgttc gtgccttctt1080
ttcttgtatc caccaaagtg gagacaaata catgatctca aagatacaca gtacctactt1140
aattccagct gatgggagac caaagaattt gcaagtggat ggtttgggat cactgtaaat1200
aaaaagaggg cctgggaatt cttgcgattc catctctaaa aaaaaaaaaa aaaaaa 1256

```

&lt;210&gt; 27

&lt;211&gt; 694

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 27

```

gtttctaaag gatgtgtaag aaaccagagg taaagggtctc gcgatatctt aagacatccg 60
gcgtagtacg cttcagtgag ccacagcgct agagaagtag gagaagctcg cgagatctgt120
gccgttgccg aggagactag gagggggagg agaggggatc tcgcaaaagg aaagaggtcg180
ggagcgctcg cgagatctcg gaccacccaa cctgaaagggt gcttaggaaag ttgaaaggcc240
cagaggaggc ctccgggcaa atggccggag ctggaccgac catgctgcta cgagaagaga300
atggctgttg cagtcggcgt cagagcagct ccagtgtcgg ggattcggac ggagagcgcg360
aggactcggc ggctgagcgc gcccgacagc agctagaggc gctgctcaac aagactatgc420
gcattcgcac gacagatgga cggacactgg tcggctgctt cctctgcact gaccgtgact480
gcaatgtcat cctgggctcg gcgcaggagt tctcaagcc gtcggattcc ttctctgccg540
gggagccccg tgtgtggggc ctggccatgg taccgggaca ccacatcgtt tccattgagg600
tgcagaggga gagtctgacc gggcctccgt atctctgacc acgatggcgc ttacctttca660
gacttcatta aacttatgac cgaaaaaaaa aaaa 694

```

&lt;210&gt; 28

&lt;211&gt; 1927

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 28

```

gcgagtattt attttttttt tttttttttt acagaaattg acctttattt gttgtactaa 60
agcctgttta acttttgata caaagtaaca ttttagtaca gaaaatccca gtctgtcagc 120

```

```

tcagtacctg tctgtgcaca ctgtaccatc tcagtcccac tctgectgta acttagaaaa 180
cagccccctac ccccgagagg tctgcgagtt aataccttga gaatagtcta cagttttttca 240
tagtttgtct gagctagaaa acttgtacct gtaaaacaaa ggacagcatt gaggactgaa 300
acttgtctct tttttgaaca actgtgcaag aaaatatatc ctttttttaa aaacatcagt 360
tatggctaaa ctacaatcta gtgtctagaa ttacaaagaa taaaatgaaa tcaaagattt 420
ctcgctagta aaatgaaatg ttaggaacag tattaataa taggtcctac cccaacgaca 480
cttacacaga gccagtaga gtacctatta ttaacaggac gcatagctta aggaggaacc 540
acatcaaatc ttcagccaga catatctagc ctcagaagtg caaaaaaaaa aaaagcccc 600
aaacgaagac acccactg agtaggggtg atgccgtgag tgctgtaatc aagattaaaa 660
agacctcagt ttttcttttt agactgttga tagtgacaat aaccattatg cttcccctaa 720
aagctctcaa ttcaatgtct gaaacatgaa tgttttcata tcaaaaagaa ctgatgtacc 780
tgccaccctc taaaaagttt aagaattacc ctgcaaacat tgcaactgat aaggctgtca 840
cgacttacag agcctaagga ggacccaatg gcaggcatca gcacagctga acaccactg 900
gacccacaga cagccctgcc cacgcagctc tcacggagca gacacagtcc tcaagtaata 960
agcacagatg gaggagaaac gagaggctgt ggaaggcagg agagaaaggc cgagagacga 1020
gtttgtaaga atgccaaagt caccttcccc atttgtggag gaaaatgcca aaggcactgg 1080
ttctgtgcc acaggcagtc tgagcacctg gagttgtgac gtccttccag gagagggtgcc 1140
accaaggagc aggaggtttg tcaaagctct ggtcccacca acaagaacct cccaaagcaa 1200
agcagcccc attgaggttc caaggtcgtt ttgctgaaga cgggaacgaa accaacacca 1260
aagcgacagg gggttgacag aggggacagg ggctgggcac cggcaacatg gagccgttca 1320
agtaaacata aaccacaaa tacttagaaa aggcttgtaa acgagtgatc cgaaaggttc 1380
tctttgcagc atctctgatc agctggctaa agaaagggtg gtgctgaacc cgtctttagt 1440
gttatctgtt ttgtgttaaa gcacacgtgt gacacgggca gagtgtgtgg gcctgggcct 1500
ggatcgacag cagccgtggc cctctgtcta caaaggagg gcttctgggt cctgggtccg 1560
gatccttccc ccgcatgttc atagacggac agacttctac tttcagtcgc tagaaaagag 1620
ctgagtctgg tgtccctca ggcgccagc tgcagtcac caccagcacg cattctccta 1680
gagcgggacg gctggaatcc acaggacttt attttgttct tgattgacca ttgccaagat 1740
ctgagtgcaa atgcttgaca gggctcctcc ctggatgacc cctgcaaaag agccccccag 1800
acacgtcatt cagctcagag taagacccca ggtttgaggc aaggcagtac agcttgcaact 1860
ctttctactg tgtggctgtc tgctttgtgc tccttggcac tctgctccat cccacctgal 1920
ctctcct
1927

```

<210> 29  
<211> 672  
<212> DNA  
<213> Homo sapiens

<400> 29

```

gcctttttat tttttttttt tggctcgttat gctgcattta ttatgagaat caacagtcaa 60
cagttaatga ttgactaact cttgttgttc actctggaca ttaacgaaaa agactggaat 120
agggctacag cgctgctttt atgctacacg ggttatgctt ggactctgac tccagcagc 180
aggtagattc aggaattcat ggcagtgaca ttcaccatca tgggaaacac cttccctttt 240
cttcaggatt ctctgtagt gaagagagca ccagtggtg ggctgaaaac atctgaaagt 300
agggagaaga acctaaaata atcagtatct cagagggtc taagggtgcca agaagtctca 360
ctggacattt aagtgccaac aaaggcatac tttcggaatc gccaaagtcaa aactttctaa 420
cttctgtctc tctcagagac aagtgagact caagagtcta ctgctttagt ggcaactaca 480
gaaaactggg gttaccaga aaaacaggag caattagaaa tggttccaat atttcaaagc 540
tccgcaaaac ggatgtgctt tcctttgcc atttagggtt tcttctcttt cctttctctt 600
tgtttagtct tcgttctctt tttcagtttc catcagatct cccctcgtg ccactggaat 660
ctcagaggtt gc
672

```

<210> 30  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 30

```

ccgcatacta gccgccgact cacacaaggc aggtgggtga ggaaatccag agttgccatg 60
gagaaaattc cagtgtcagc attcttgccg cttgtggcgc tctcctacaa tctggccagg 120
gatagcacag tcaaacctgg agccaaaaag gacaggagg agtctcgagc caaactgcgc 180
cagaccctct ccagaagttg ggggtgaacaa ctcatctgga ctcagacgta tgaagaagct 240

```



ctatataaat cgagactagc aactaacc

269

<210> 31  
 <211> 604  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 31

```

tgcgagggcg ggatagctgt ccaaggtctc cccagcact gaggagctcg cctgctgccc 60
tcttgccgcg gggaagcagc accaagttca cggccaacgc cttggcacta ggtccagaa120
tggtacaaac agtccctgat ggttgccgca atggcctgaa atccaagtac tacagacttt180
gtgataaggc tgaagcttgg ggcatcgtcc tagaaacggg ggccacagcc ggggttgtga240
cctcggtggc cttcatgctc actctcccga tcctcgtctg caaggtgcag gactccaaca300
ggcgaaaaat gctgcctact cagtttctct tcctcctggg tgtgttgggc atctttggcc360
tcaccttcgc cttcatcctc ggactggacg ggagcacagg gccacacgc ttcttcctct420
ttgggatcct cttttccatc tgcttctcct gcctgctggc tcatgctgtc agtctgacca480
agctcgtccg ggggaggaag cccctttccc ggttggtgat tctgggtctg gccgtgggct540
tcagcctagt ccaggatggt atcgctattg aatatattgt cctgacgatg aataggacca600
agggt

```

604

<210> 32  
 <211> 781  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 32

```

ctttaatgtg cctagagcaa tggaatgggg cactttgggg gcggtggaat tcaagacgct 60
ctggctgaag attcagaagt atctggtaac tctcttttcc ttctgggcat cctctcctct120
gttctaatec tcccttacac tcattcctgg tccattgtat tctgaccaca tccttaatca180
tggtcaaaac tattgagtcg tgggcacatt ggtcatgaag gaacaagaag gcaatgagag240
actctcatgc caaccactgc cctgaaagcc ctgctgttca gacagcaaag gggccagcac300
tgggcaagct cttatgcttg ctctgaaacc ttcttgggag gagtcaatag ggtctccttt360
tgaaagtgtc cctggccttt tgagaaagca gtgtggtgga gggagatggg tctggcaggg420
gccgtgaatg gttgttttct acttgggatt tctttcctgc tttaggagat ctattgggaa480
actgattata accactcggg caccatcgat gccacagaga tgaggacagc cctcaggaag540
gcaggtttca cctcaacag ccagggtgcag cagaccattg ccctgcggta tgcgtgcagc600
aagcttggca tcaactttga cagcttcgtg gcttgtatga tccgcctgga gaccctcttc660
aaactattca gccttctgga cgaagacaag gatggcatgg ttcagctctc tctggccgag720
tggtgtgtgt gcgtgttggt ctgaccgcc aaacttgacc tagaagatgg ggggggcctc780
c

```

781

<210> 33  
 <211> 304  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 33

```

ggccactgcg gcgagacgcg aggaactgtc gctcgtactc gtgcgcctcg ctttgctttt 60
cctccgcaac catgtctgac aaacccgata tggctgagat cgagaaattc gataagtcga120
aactgaagaa gacagagacg caagagaaaa atccactgcc ttccaaagaa acgattgaac180
aggagaagca agcaggcgaa tcgtaaggag gcgtgcgccg ccaagtatgc actgagatgc240
gagaagtgtt gcgtcgaatt tacctgcttg agggggtaaa gttgggaagg tggaaaagg300
gtgg

```

304

<210> 34  
 <211> 1528  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 34

```

aattcgggac catggggccac agtgggatggc ttgaaatgtg gctgagcgct tccggacactt 60
cggatccatg gtggccaccc caagacgcgc cccagcccgc catggcccgg atcctccggg 120
atcctgcctt ctgtccctgc tcctggccgg gtttgttccg ccgggcccggg gacaagagaa 180
gtctaagaca gactgccatg gcggtatgag tggatccatc tacgagtatg gagccctcac 240
catcgatggg gaggaatata ttcccttttaa gcagtatgca ggcaaataata tcctctttgt 300
caacgtagcc agctactgag gtctgacaga ccaatacctt gaactgaatg cactacaaga 360
agaacttggg ccatttggct tggatcattct gggcttccct tccaaccaat ttggcaaaaca 420
ggagccaggc gagaactcgg agatactccc cagtctcaag tatgttcgac caggtggggg 480
ctttgtgcct aatttccagc tctttgagaa aggagatgtg aacgggggaga aagagcagaa 540
attctacact ttccctgaaga actcctgccc tcccactgca gaactcctgg gctcacctgg 600
ccgcctcttt tgggaaccca tgaagatcca tgacatccgc tggaaacttg agaagttcct 660
ggtggggcca gatggcatac cggttatgag ctggtaccac cggaccacag tcagcaacgt 720
caagatggcc atcctgtctt acatgaggcg gcaggcagcc ctgagcgcca gggggaagta 780
actgatggcc ccaccctacc cctacccccct gccatcatg caagggccga ggaggggctc 840
ttcaggaagg aagccacatt cccagtcatt ctacccccac cccagattct ctttcttatt 900
acataaaaga caagcctggc acaactgtgt gtctgaacca ctgtggacac gtgacaattg 960
tcccagtggt tgcattggct cacagccacg tatctgcctg cttgaaaccc agggatgggtc 1020
catctgtgtt tacggcttgg cacaaccccc tcataattttt ttcagctttc tgttccaaat 1080
gagccccaaag gaaacacaag ttctaggtct aatggttctg ctcaaacctg aacatcattc 1140
ttggggccag catctccacc atgcccacac tacacaccac cagcctcctt cttccttctc 1200
gaaggaccct cctgagcccc caagcccatc ccacagtgtc cctgagacca gccaaagacaa 1260
ctgtgagcgc gatggcctgt taccacaggt caggggtggg gtctctatga agggggggcc 1320
cgaagccctt gtgggcgggc ctcccctgag cccgtctgtg gtgccagccc ttagtgattt 1380
caggcttagg ctcccaggca gggacactac ccccgcgct ctggaggaca tgctatcctc 1440
tcactctgtc cactgggtatc tcaacacccc catctgcccga gtaaagggtc ttctgcagca 1500
aaaaaaaaaa agaaaaaaaaa aaaaaaaaaa

```

<210> 35  
 <211> 499  
 <212> DNA  
 <213> Homo sapiens

<400> 35

```

ggcagggtctc agcgctcctc cccctgctcc gctcctctgc agggcccagg cggccttggc 60
cttaggaccc aacttctctt accgccatgg agttcgacct gggagcagcc ctggagccca 120
cctcccagaa gcccgggtgtg ggggcggggc acgggggaga tcccaagctc agtccccaca 180
aagttcaggg ccggtcggag gcaggggagc gtccgggtcc aaagcaagga caccacagct 240
cttccgactc cagcagcagc tccagcgatt cggacacgga tgtgaagtcc cagctgctg 300
gctccaagca gcacgagagc atcccgggca aggccaaaga gccc aaagtg aagaagaagg 360
agaagggcaa gaaggagaag ggcaagaaga agggaggtcc ccactgaagg gccctggaca 420
gggctcatta aaccttctc tctgcctacg agtaccaccc acctggagct aagatgctta 480
gggggggggg ggcgcgca

```

<210> 36  
 <211> 1396  
 <212> DNA  
 <213> Homo sapiens

<400> 36

```

gggcacccgt tagttgggaa cagcggaaacg ctgggtcccg ggactgagta aggtgtctgg 60
atcggaggga ggttcgggtg ggcacggggc ggctggaaga gctcgactcg tcccgttggg 120
aaagcgcgag tctgagtga accctggagc acttgacagag cggctggcgc agtcatggcg 180
gactactgga agtcacagcc aaagaaattc tgtgattact gcaagtgtct gatagcagac 240
aataggccta gtgttgaaat tcatgaaaga ggaaagaatc ataaggaaaa tgtggcaaaa 300
aggatcagtg agattaaaca gaaaagcctg gataaggcaa aggaagaaga aaaggcatca 360
aaggagtttg ctgcaatgga ggcagctgcc ctgaaagcat accaagagga tttgaaaaga 420
cttggttag agtcagaaat tttggagcca agcataacac cagtaaccag cactatcccc 480
cctacctcga catcaaatca acagaaagaa aagaaagaga agaagaaaaa aagatccttc 540
aaagggcaga tgggtagaag gcataacctc tgagggttac cattactatt atgatcttat 600
ctcaggagca tctcagtggt agaaacctga aggatttcaa ggagacttaa aaaagacagc 660

```

```

agtgaagacc gtttgggtag aagggtttaag tgaagatggt tttacctatt actataatac 720
agaaaacagga gaatccagat gggagaaaacc tgatgatttc attccacaca ctagtgatct 780
gccttctagt aaaggtcaatg aaaattcact tggcacccta gatgaatcca aatcatcaga 840
ttcgcatagt gattctgatg gggaacagga agcagaagaa ggaggggtct ctacagagac 900
agaaaagcca aaaataaagt ttaaggaaaa aaataaaaaat agtgatggag gaagtgaccc 960
agaaacacag aaagaaaaaa gtattcagaa acagaattca ttaggttcaa atgaagaaaa1020
atcgaaaact cttaagaaat caaaccata tggagaatgg caagaaatta aacaagaggt1080
tgagtctcat gaggaggtag atttggact tccaagcact gaaaatgagt atgtatcaac1140
ttcagaagct gatggtggcg gagaacccaa agtggatatt aaagaaaaaa cagtcacttc1200
tcttggagtt atggcagatg gagtggcccc agtcttcaaa aagagaagaa cttgaaaatg1260
ggaaaatctt aggaaaattt aagggaacag aggtgatgat ccaatagttt gcagggagag1320
cttttttgtt acatgctttt tagggaccag aatggggaga ctttttgcca cccccaagt1380
ttgtcccgtg ttttgt                                     1396

```

&lt;210&gt; 37

&lt;400&gt; 37

000

&lt;210&gt; 38

&lt;211&gt; 808

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 38

```

cctctgtcca ctgctttcgt gaagacaaga tgaagtccac aattgtcttt gctggacttc 60
ttggagtctt tctagctcct gccctagcta actataatat caacgtcaat gatgacaaca120
acaatgctgg aagtgggcag cagtcagtga gtgtcaacaa tgaacacaat gtggccaatg180
ttgacaataa caacggatgg gactcctgga attccatctg ggattatgga aatggctttg240
ctgcaaccag actctttcaa aagaagacat gcattgtgca caaaatgaac aaggaagtca300
tgccctccat tcaatccctt gatgcaactg tcaaggaaaa gaagcttcag ggtaaggagc360
caggaggacc acctcccaag ggctgatgt actcagtcaa cccaaacaaa gtcgatgacc420
tgagcaagtt cggaaaaaac attgcaaaaca tgtgtcgtgg gattccaaca tacatggctg480
aggagatgca agaggcaagc ctgtttttt actcaggaac gtgctacacg accagtgtac540
tatggattgt ggacatttcc ttctgtggag acacgggtgga gaactaaaca attttttaa600
gccactatgg atttagtcat ctgaatatgc tgtgcagaaa aaatatgggc tccagtgggt660
ttaccatgt cattctgaaa ttttctcta ctagttagt ttgatttctt taagtttcaa720
taaaatcatt tagcattgaa acggagaact ctgcgggcta gtaaccacaa ggtacggagc780
aaagatcacc caggtgggaa gaggtgga                                     808

```

&lt;210&gt; 39

&lt;211&gt; 1139

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 39

```

tttttttttt tttttttttt ttttttgcag caatacctcc tttatttgat ccctgtttat 60
gtccacatat gtactgtatt atcacagatg caactgattt atcatagagc actcagaaaa 120
catggaaaag tattttttaa aatcgaataa tcctattcaa gtcaaccagt gtttaacccc 180
gtgtgcttcc tgccagtctg ttctcccca tgggagtcac acaaaatgaa aatctcctag 240
aaagagaaat tcctctgtcc tctgacttct tcaactagta cgtgcgacc ttcccatgtt 300
gttcaacatc ctcaactcgg agcgtcactg gctggaggtg gtctataaat ggaattggct 360
taactatctc ttcaactgaa ggtggacatt tagggaggtg ccagttttca gctgtcataa 420
acaactgcct tagacggcaa agaattcaca ggtcaatcgt tcccttcgct ttgaacttct 480
tcgcagaccg ttcaactgac cgaagctgga atttgctccc gtaaatgtag gaaataaagc 540
catcggtttc cacagtgaac acgcagttta gcttgggat aactttcagg cggcttctct 600
tggtgataat tttgaaaatg tgctttgttt cctgtagaag gattcctgta ataccacat 660
aagaggggca tttggatttt gtcactgaaa taatagcccc gtgaagatct gcctttaaga 720
gcttggcctg aatcatctgt ggctgcgtgt ctggcttgag cccactgcac aggtccctga 780
tgtactgttt ccagagttca tggagagggg ggaaaaggct gtatctctgc tgctctgggt 840
taatgtcaaa gagccgcagc tccctccttt gctggcaga gaagcctttg gctttcttct 900
tcttctcctt gcgcttgtgg cgggtgaagt actccaggac caccgccttg cgtgcagct 960

```

ggctcctcgcg ggccctgcggg ctcctgcggg ggcgtctgcgc ttcaggaagg ccctcacgaa1020  
 ggccctcgccc cgctgtgctc ctgaaggctg gacatcgagag tcattcgctt ctttctgaga1080  
 caatgcattgg tagatcacac tcttcattct cggaccgctt ccggcgctct ctgatgacg 1139

<210> 40

<211> 2177

<212> DNA

<213> Homo sapiens

<400> 40

gcccacgcgt ccggctgcggg ccggcagcga acagcagcag cagtcagcct tcattcagga 60  
 aagacagcca gttgctctca tgcgtttatt gtctttcaat gtgcctcata ttaaaacag 120  
 cacaggagaa ccaatatgga aggtactcat ttatgacaga ttggccaag atataatctc 180  
 tctctgcta tctgtgaagg agctaagaga catgggaatc actctgcata tgcttttaca 240  
 ctctgatcga gatcctattc cagatgttcc tgcagtatac ttgtaatgc caactgaaga 300  
 aaatattgac agaattgtgcc aggatcttcg aaatcaacta tatgaatcat attattttaa 360  
 ttttatttct gctattttcaa gaagtaaaact ggaagatatt gcaaattgcag cgtttagcagc 420  
 tagtgacgta acacaagtag ccaagggtttt tgaccaatat ctcaatttta ttacttttga 480  
 agatgatattg tttgtattat gtaatcaaaa taaggagctt gtttcataatc gtgccattaa 540  
 caggccagat atcacagaca cggaaatgga aactgttatg gacactatag ttgacagcct 600  
 ctctgctttt tttgttactc tgggtgctgt tcctataatc agatgttcaa gaggaacagc 660  
 agcagaaatg gtagcagtgga aactagacaa gaaacttcga gaaaatctaa gagatgcaag 720  
 aaacagctctt tttacagggtg atacacttgg agctggccaa ttcagcttcc agaggccctt 780  
 attagtcctt gttgacagaa acatagattt ggcaactcct ttacatcata cttggacata 840  
 tcaagcattg gtgcacgatg tactggattt ccatttaaac aggggttaatt tggagaatc 900  
 ttcaggagtg gaaaactctc cagctgggtgc tagaccaaag agaaaaaaca agaagctta 960  
 tgatttaact ccggttgata aatttttgga aaaacataaa ggaagtccat tcccagaagt 1020  
 tgcagaatca gttcagcaag aactagaatc ttacagagca caggaagatg aggtcaaacg 1080  
 acttaaaagc attatgggac tagaagggga agatgaagga gccataagta tgctttctga 1140  
 caataccgct aagctaacat cagctgttag ttctttgcca gaactccttg agaaaaaaag 1200  
 acttattgat ctccatacaa atgttgccac tgctgtttta gaacatataa aggcaagaaa 1260  
 attggatgta tattttgaat atgaagaaaa aataatgagc aaaactactc tggataaatc 1320  
 tcttctagat ataatatcag accctgatgc aggaactcca gaagataaaa tgaggttgtt 1380  
 tcttatctat tatataagca cacagcaagc accttctgag gctgatttgg agcaatataa 1440  
 aaaagcttta actgatgcag gatgcaacct taatccttta caatatatca aacagtggaa 1500  
 ggcttttacc aagatggcct cagctccggc cagctatggc agcactacca ctaaaccaat 1560  
 gggcttttta tcacgagtc tgaatacagg atcacagtt gtgatggaag gagtgaagaa 1620  
 cctgggtttg aaacagcaaa atctacctgt tactcgtatt ttggacaatc ttatggagat 1680  
 gaagtcaaac cccgaaactg atgactatag atattttgat cccaaaatgc tgcggggcaa 1740  
 tgacagctca gttcccgaga ataaaaatcc attccaagag gccattgttt ttgtgggtgg 1800  
 aggaggcaac tacattgaat atcagaatct tgttgactac ataaagggga aacaaggcaa 1860  
 acacatttta tatggctgca gtgagctttt taatgctaca cagttcataa aacagtgtgc 1920  
 acaacttgga caaaagtaac acagaagaac cttactatga taatctactt ggaatgtgga 1980  
 taaatgtaaa aagaagaaaa gttagaagag caatatgttt ccttctctgt aacagtgtcc 2040  
 taacagtga aatcagagtt atttgtaaat ttttaaggaa attatatact taatatgtat 2100  
 tgattaaaag aaacatttca gaaataaaat ttcaacattg taaaaaaa gtcgggtacc 2160  
 tacacggata atatcgc 2177

<210> 41

<211> 402

<212> DNA

<213> Homo sapiens

<400> 41

ggcgaggcc ccagccagct caggctacac tatccagga tcagcatggc cgtccgccag 60  
 tgggtaatcg ccctggcctt ggctgcctc cttgttggg acagggaagt gccagtggca 120  
 gcaggaaagc tccctttctc aagaatgccc atctgtgaac acatggtaga gtctccaacc 180  
 tgttcccaga tgtccaacct ggtctgcggc actgatgggc tcacatatac gaatgaatgc 240  
 cagctctgct tggcccggat aaaaaccaa caggacatcc agatcatgaa agatggcaaa 300  
 tgctgatccc acaggagcac ctcaagccat gaagtgtcag ctggagaaca gtggtgggca 360  
 tggagaggat atgacatgaa ataaaagatc cagcccaact ga 402

<210> 42  
 <211> 1349  
 <212> DNA  
 <213> Homo sapiens

<400> 42

```

cttctttttgc catcccatTT ccttggcact gcaccatttc cccaattatt ggccaatccc 60
taggcttttct ggggttttaca atggttgcga ccacaatcag gctcatagat ggctccaatt 120
taaaaaaaaaa ggtaatgggtg atggataaaa taagcagatc aaggggaagtg tgctatcata 180
aaataactgt agcttcaaca tcttgagtac cagtttcctg gcagatagta aacatccaat 240
cacaaggggat ttttcctgaa ggggtgtaaag ctggtttgaa aattcttcag tcacagagca 300
gcctacacat gccaattaga aactgacaga cactagatgt gcttgggaaga ttaaactacta 360
cgtacagaaa cagcagttac taagctcctc agtagtttct tgtctttttt aagtttcgct 420
gaatcgacag tttgcacaac gtgctatatt ctgtgggtca aaaccaagta aatactgtgt 480
aaagtgggca gattttttcca gctaagatca agaaaaaaca aattttctga taaaacaggt 540
ttagagtcag aaacactctc taaagtgcaa aactgatggg ccacgatctc aaatagctaa 600
aactcctgca gaatggaagg gagagacgtg aaacagggaa ataaattaca gtcagtgtcta 660
gttaatttag gaaaagggaa aaataaaacca aactcaagtc ggtaaagtgt atcaaaatat 720
tcaatgatgt agctttcccc actctctgtc acacacgctt gctaacaagt atataaatt 780
aaggccaaat ttaacctgaa tgcgtttttt tttttctttt tattaagatc tgagatagga 840
acggtcatac ttagtactga aaggcagaca ataaaatggg ccatgaaagg ggggggaaag 900
gtactgtcta ttgttcgagg gattcaacca gagataaaac ctatatacaa gcatgtgtgt 960
agctcgaaat aaaaataaaa ggactatttc atgtcatgac tgcttggttg cttcctcttcl020
atatgcattc cctgtgccat tctgtacata ggatgaacca gaaccaaggc catacaaatg1080
accacaatat ttggcatcat caatatgac ttcaaagaac atttctctca ttttgaaaaa1140
ggcattcct gtgagcaatg aatcagatcc tgctgatgt tgtggctcta tccgttccag1200
ctctaactgt tctgccacct cctgtaatcc acctttgaga tttttcctgt catttatgat1260
gtgaagtacc tcatgaagag ctgcaaaaaa ctctaactgt tctgccacct cctgtaattg1320
cgagtcagtg attgacgaaa taatagtgc 1349

```

<210> 43  
 <211> 3552  
 <212> DNA  
 <213> Homo sapiens

<400> 43

```

atttaattctt cattcttcta ctatccccc aa tcttaatttc aatatcaaac ctaattaaac 60
acatcaactt cccactgtac accaccacat caatcaaatt ctcttcatt attagcctct 120
tacccttatt aatatttttc cacaataata tagaatatat aattacaacc tggcactgag 180
tcaccataaa ttcaatagaa cttaaaaataa gcttcaaaac tgactttttc tctatcctgt 240
ttacatctgt agcccttttt gtcacatgat caattataca attctcttca tgatatatac 300
actcagaccc aaacatcaat cgattcatta aatatcttac actattcctg attaccatgc 360
ttatcctcac ctacagccaa aacatatttc aacttttcat tggctgagaa ggggtgggaa 420
ttatatcttt cctactaatt ggatgatggg acggacgaac agacgcaaat actgcagccc 480
tacaagcaat cctctataac cgcacggag acatcgatt catttttagt atagtttgat 540
tttccctaaa cataaactca tgagaacttc aacagattat attctccaac aacaacgaca 600
atctaattcc acttataggc ctattaatcg cagctacagg aaaatcagca caatttggcc 660
tccacccatg actaccatca gcaatagaag gccctacacc agtttcagca ctactacact 720
caagtacaat agtagttgca ggaattttcc tactgggtccg attccacccc ctacagacta 780
ataataactt tatttttaaca actatacttt gcctcggagc cctaaccaca ttattttacag 840
ctattttgtg tctcacccaa aacgacatca aaaaaatcat tgccttctct acatcaagcc 900
aactaggcct gataatagtg acgctaggaa taaaccaacc acacctagca ttctacaca 960
tctgtaccct cgcatttctc aaagctatac tcttttatag ctctggctca atcattcata1020
gcctggcaga cgaacaagac atccgaaaaa taggaaacat cacaaaaatc ataccattca1080
catcatcatg cctagtaatc ggaagcctcg ccctcacagg aataccattc ctaacaggggt1140
tctactcaaa agacctaatt attgaagcaa ttaatacctg caacaccaac gcctgagccc1200
tactaattac actaatcgcc acttctataa cagctatgta cagcatacga atcattttact1260
tcgtaacaat aacaaaaaccg cgttttcccc ccctaattct cattaacgaa aatgacccag1320
acctcataaa cccaatcaaa cgcctagcat tcggaagcat ctttgcagga tttgtcatct1380
catataatat tccaccaacc agcattccag tcttcacaat accatgattt ttaaaaaacca1440

```

```

cagccctaatt tatttcagta ttaggattcc taatcgcaact agaactaaac aacctaacca1500
taaaactatc aataaataaa gcaaattccat attcatcctt ctcaacttta ctgggggtttt1560
tcccatctat tattcaccgc attacaccca taaaatctct caacctaaagc ctaaaaacat1620
ccctaactct cctagacttg atctgggttag aaaaaaccat cccaaaatcc acctcaactc1680
ttcacacaaa cataaccact ttaacaacca accaaaaagg ctttaattaaa ttgtacttta1740
tatcattcct aattaacatc atcttaatta ttatcttata ctcaattaat ctcgagtaat1800
ctcgataata ataaaaatac ccgcaaacaa agatcaccca gctactacca tcattcaagt1860
agcacaaacta tatattgccg ctaccccaat cctccttcc aacataactc caacatcatc1920
aacctcatac atcaaccaat ctcccaaacc atcaagatta attactccaa cttcatcata1980
ataattaagc acacaaatta aaaaaacctc tataatcacc cccaatacta aaaaacccaa2040
aattaatcag ttagatcccc aagtctctgg atattcctca gtagctatag cagtcgtata2100
tccaaacaca accaacatcc cccctaaata aattaaaaaa actattaac ctaaaaaaga2160
tccaccaaac cctaaaacca ttaacaaccc aacaaaacca ctaacaatta aacctaaacc2220
tccataaata ggtgaaggct ttaatgctaa cccaagacaa ccaacaaaaa ataatgaact2280
taaaacaaaa atataattat tcattatttc tacacagcat tcaactgcga ccaatgacat2340
gaaaaatcat cgttgtaatt caactacaga aacaccattc ggatccatga aaaacacacc2400
cattatttaa aattattaac cactcattca ttgacctacc tgccccatcc aacatttcat2460
catgatgaaa ctttgggtcc cttctaggag tctgcctaatt agtccaaatc attacaggtc2520
ttttcttagc catacactac acatcagata caataacagc cttttcatca gtaacacaca2580
tttgcgaga cgtaaattac gggtgactaa tccgatatat acacgcaaac ggagcctcaa2640
tattttttat ttgcttattc cttcatgtcg gacgaggctt atattatgga tcatatacat2700
ttatagaaac ctgaaacatt ggagtacttc tactgttcgc agtcatagcc acagcattta2760
taggctacgt ccttccatga ggacaaatat cattctgagg tgccacagtt attacaaacc2820
tcctatcagc catcccatat attggaacaa ccctagtcga atgaatttga ggggggttct2880
cagtagacaa agccaccttg acccgattct tcgctttcca cttcatctta ccatttatta2940
tcgcggccct agcaatcggt cacctcctct tcctccacga aacaggatca aacaacccaa3000
caggattaaa ctgagatgca gataaaattc ctttccacc ctactataca atcaaagata3060
tcctagggtat cctaatacata ttcttaattc tcataaccct agtattattt tcccagaca3120
tactaggaga cccagacaaac tacataccag ctaatccact aaacacccca ccccatatta3180
aaccggaatg atatttccta tttgcatacg ccattctacg ctcaatcccc aataaactag3240
gaggtgtcct agccttaatc ttatctatcc taatttttagc cctaatacct ttccttcata3300
cctcaaagca acgaagccta atattccgcc caatcacaca aattttgtac tgaatcctag3360
tagccaacct acttatctta acctgaattg ggggccaacc agtagaacac ccatttatta3420
tcattggcca actagcctcc atctcattc tctcaatcat ctttaattct ataccaatct3480
caggaattat cgaagacaaa atactaaaat tatatccata aaaaaaaaaa acgatcggtt3540
gacatatagg gc
3552

```

<210> 44  
 <211> 601  
 <212> DNA  
 <213> Homo sapiens

<400> 44

```

tttttttttt tttttttttt tgcaattcaa atgaacgttt atttcttaaa cccacacaga 60
gtaagggcag agcttagaga tgccctggcac agcatttctc atccaggatc acttcctcgt120
tctttcttct ttgctgggag catcttagat ttatatcatt ttctacaaag acaatatcct180
gaatggcagt cgcagggttta tttcaaagtt ggagtcttct caggaagtag gggagactgg240
attcccagct aatggaattt tcaactgtgat gtctgtgttc tcagtgaatt cttccagaaa300
gccggaggag actgtctcaa catcagtaga gaactcagaa ttctgtttgt ttgcggctgg360
cgtgaagtcc atgatctgct cagagtcagt gcttaaatca tcatctgtat aatcctctag420
aggagctttt gtccctctgt atgatcccag ttggtcaaag actgagttta gtaggtcaat480
gattgaattc tgtagttctt tattgattga aactaattct gacaggggga aagccacagt540
cagaccacag aagacagtga tcaccaggac cttgaaaagc atcatgcttt agtaggggta600
a
601

```

<210> 45  
 <211> 2147  
 <212> DNA  
 <213> Homo sapiens

<400> 45

```

agaaggggaa caaaaaaaaa aatatctgaa ttttgaaaa ccacaaagct acaacactga 60
ccctctcttt tttttgagac ggagttttgc tcttgttacc caggctggag tgcagtggcg 120
tgatcttggc tcaactgaac ttccgtctcc cgggttcaag tgattctcct gcctcagcct 180
ccaagtagc tgggtttata ggtgcccgcc accagaccgc gctaattttt tagttttagt 240
agagacgggg tttcaccacg ttggccaggc ttgtcttaaa tgacctctt atttttaact 300
tggatacctg ctattctgcc aaaagacaat ttctagagta gttttgaatg ggttgatttc 360
ccccactccc acaaaactctg aagccagtgt ctagcttact aaaaaaagag ttgtatataa 420
tatttaagat gctgagtatt tcataggaaa gctgaatgct gctgtaaagt gctctttaag 480
tctttttttt ttttaatccc cttctaata atgaaactag gggaatttca ggggacagag 540
atgggatttg ttgtatgata aactgtatgt agtttttagt ctttctgttt tgagaagcag 600
tgggtggggc atttttaaga tggctggcta ctcttgtttt ccctcatgat aataaatttg 660
tcataactca gtaacatgaa cttgccccta gaggtagttg ttaataattt tgaaatatta 720
aggtcttgcc aagcttctga tgattcacac ctgtactact gattattaag caggacagac 780
tgagctttct gttgcaataa ccttgaggga gaaagtaatt tctaaatata cagagaggta 840
acttgactat atatgttgca tcctgtgcct cccttcatat taatatattg taaagatttt 900
aatttatgta aaactttctaa agcagaatca aagctcctct tggggaaatg gcaagtcttt 960
aggataggca agacctgtg tgaatagtac caaagcatta ccgcatggta gagaacacac 1020
tcgattaaaa atgttaagct atctgaaaaa taaaatgtgc aagtcttcag gatggcacaa 1080
aacaaagggt aatgcttctt ggggcacatt tcttagaggg ctgtctgagt gtgtaaatat 1140
aatcgacttt tgtttgtgtt acatgacttc tgtgacttca ttgaaaatct gcacaattca 1200
gtttcagctt tggattactt cagttgacct ttgtgaaggt ttttatctgt gtagaatggg 1260
tgtttgactt gttttagcct attaaatttt tattttcttt cactctgtat taaaagtaaa 1320
acttactaaa agaaaagagg tttgtgttca cattaaatgg ttttggtttg gcttctttta 1380
gtcaggcttt ctgaacattg agatatcctg aacttagagc tcttcaatcc taagattttc 1440
atgaaaagcc tctcacttga acccaaacca gagtactctt actgcctctt ttctaaatgt 1500
tcaggaaaag cattgccagt tcagttcttt caaaatgagg gagaaacatt tgccctgcctt 1560
gtaataacaa gactcagtgc ttatttttta aactgcattt taaaaattgg atagtataat 1620
aacaataagg agtaagccac cttttatagg caccctgtag ttttatagtt cttaatctaa 1680
acattttata tttccttctt ttggaaaaaa cctacatgct acaagccacc atatgcacag 1740
actatacagt gagttgagtt ggctctccca cagtctttga ggtgaattac aaaagtcag 1800
ccattatcat cctcctgagt tatttgaaat gatttttttt gtacattttg gctgcagtat 1860
tgggtggtaga atatactata atatggatca tctctacttc tgtattttatt tattttattac 1920
tagacctcaa ccacagtctt ctttttcccc ttccacctct ctttgcctgt aggtgtact 1980
gtatgtagtc atgcactttg tattaatata tttagaatct acagatctgt tttgtacttt 2040
ttatactgtt ggatacttat aatcaaaact tttactaggg tattgaataa atctagtctt 2100
actagaaaat aaaaaaaaaa aaaaaaaaaa ctcaagacta gttctct 2147

```

<210> 46  
 <211> 623  
 <212> DNA  
 <213> Homo sapiens

<400> 46

```

cccacgcgtc cccggaaacg gcggcgccgg cgacaggacc gaggggcctt agttggtggg 60
caagtcgggg atcccagaaa gagaagcgtg acccggaagc ggaaacgggt gtccgtccca 120
gtccggcctt gccagtgagc ttctaccatc atggacctat tgttcgggcg ccggaagacg 180
ccagaggagc tactgcggca gaaccagagg gccctgaacc gtgccatgcg ggagctggac 240
cgcgagcgac agaaactaga gacccaggag aagaaaatca ttgcagacat taagaagatg 300
gccaaagcaag gccagatgga tgctgttcgc atcatggcaa aagacttggg gcgcaccggg 360
cgctatgtgc gcaagtttgt attgatgcgg gccaacatcc aggctgtgtc cctcaagatc 420
cagacactca agtccaacaa ctcgatggca caagccatga aggggtgtcac caaggccatg 480
ggcaccatga acagacagct gaagttgccc cagatccaga agatcatgat ggagtttgag 540
cggcaggcag agatcatgga tatgaaggag gagaggattg aattgttgca tttgatgatc 600
ccgtgggttt tggggaagtt tta

```

<210> 47  
 <211> 781  
 <212> DNA  
 <213> Homo sapiens

<400> 47

```

gcgggtatat tgcaagcttg aaaaactaaa agatctgtga aagatgctgc caagaagggc 60
cagaaggatg tctgcatagt tctggccaag gagatgatca ggtcaaggaa ggctgtgagc120
aagctgtatg catccaaagc acacatgaac tcagtgtctc tggggatgaa gaaccagctc180
gcggctcttg gagtggtctg ttccctgcag aagagcacag aagtgtgaa ggccatgcaa240
agtcttctga agattccaga gattcaggcc accatgaggg agttgtccaa agaaatgatg300
aaggctggga tcatagagga gatgttagag gacacttttg aaagcatgga cgatcaggaa360
gaaatggagg aagaagcaga aatggaaatt gacagaattc tctttgaaat tacagcaggg420
gccttgggca aagcaccagc taaagtgact gatgcccttc cagagccaga acctccagga480
gcgatggctg cctcagagga tgagggggag gaggaagagg ctctggaggc catgcagtcc540
cggctggcca cactccgcag ctaggggctg cctaccccg cagggtgtgca cacactcctc600
tcaagagctg ccattttatg tgtctcttgc actacacctc tgttgtgagg actaccattt660
tgagagaagg tctgtttgtc tcttttcatt ctctgcccag gttttgggat cgcaaaggga720
ttgttcttat aaaagtggca taaataaatg catcattttt aggaaaaaaa aaaaaaaaaa781
a

```

<210> 48  
 <211> 1714  
 <212> DNA  
 <213> Homo sapiens

<400> 48

```

gttgcgacat gcagtgcgcc ggaggaactg tgctctttga ggccgacgct aggggccccg 60
aagggaaact gcgaggcgaa ggtgaccggg gaccgagcat ttcagatctg ctccgtagac 120
ctgggtgcacc accaccatgt tggctgcaag gctgggtgtg ctccggacac taccttctag 180
ggttttccac ccagctttca ccaaggcctc cctgttgtg aagaattcca tcacgaagaa 240
tcaatggctg ttaacaccta gcagggaata gccaccaa acaagaattg ggtccggcg 300
tgaggaaact ggccaagaac tcaaagaggc agcattggaa ccatcgatgg aaaaaatatt 360
taaaattgat cataggggaa gatggtttgt tgctggaggg gctgctgttg gtcttggagc 420
attgtgtctac tatggcttgg gactgtctaa tgagattgga gctattgaaa aggtgttaat 480
ttggcctcag tatgtcaagg atagaattca ttccacctat atgtacttag caggagtagt 540
tggtttaaca gctttgtctg ccatagcaat cagcagaacg cctgttctca tgaacttcat 600
gatgagaggc tcttgggtga caattgggtg gacctttgca gccatgggtg gagctggaat 660
gctggtagca tcaataccat atgaccagag gccaggccca aagcatcttg cttggttgct 720
acattctggt gtgatgggtg cagtgggtgg tctcttgaca atattagggg gtctcttct 780
catcagagct gcatggtaca cagctggcat tgtgggaggc ctctccactg tggccatgtg 840
tgogcccagt gaaaagtttc tgaacatggg tgcacccctg ggagtggg cc tgggtctcgt 900
ctttgtgtcc tcattgggat ctatgtttct tccacctacc accgtggctg gtgccactct 960
ttactcagtg gcaatgtacg gtggattagt tcttttcagc atgttctctc tgtatgatac1020
ccagaaagta atcaagcgtg cagaagtatc accaatgtat ggagttcaaa aatatgatcc1080
cattaactcg atgctgagta tctacatgga tacattaaat atatttatgc gagttgcaac1140
tatgctggca actggaggca acagaaaagaa atgaagtga ctagcttctg gcttctctgc1200
tacatcaaat atcttgttta atggggcaga tatgcattaa atagtttgta caagcagctt1260
tcgttgaaat ttagaagata agaaacatgt catcatattt aaatgttccg gtaatgtgat1320
gcctcagggtc tgcctttttt tctggagaat aaatgcagta atcctctccc aaataagcac1380
acacattttc aattctcatg tttgagtgat tttaaaatgt tttgggtgaat gtgaaaacta1440
aagtttgtgt catgagaatg taagtctttt ttctacttta aaatttagta ggttactgal1500
gtaactaaaa tttagcaaac ctgtgtttgc atattttttt ggagtgcaga atattgtaat1560
taatgtcata agtgatttgg agctttggta aagggaccag agagaaggag tcacctgcag1620
tcttttgttt ttttaaaatac ttaggaactt agcacctggg gttatttgga ttaggtgagg1680
gagccccgta ggaacagccg ggtattgggg aaca

```

<210> 49  
 <211> 831  
 <212> DNA  
 <213> Homo sapiens

<400> 49

```

cacccccagc ccctgctctg aggcaccgag aaacgaggag gcccggtggc agtctccacg 60
tggttaccgg cgctctcggc gcccgtagcc acccgccgc cggaagccga catctcgagt120
tctggcgaaa gcaatttgcg cggcgaggag cggacgggca ggaacccaat aagctgcttc180
gcctcggagc tgaagcccgat actcaagatg gcggctccgg gcgggcgtgg ccagtacta240

```



```

gaagggcgagg cgccgcggga ccatggcggc ggcgggcgac gagcgagtc cagaggacgg300
agaagacgag gaagaggagg agcagttggt tctggtggaa ttatcaggaa ttattgattc360
agacttcctc tcaaaatgtg aaaataaatg caagggtttg ggcattgaca ctgagaggcc420
cattctgcaa gtggacagct gtgtctttgc tggggagtat gaagacactc tagggacctg480
tggtatatatt gaagaaaatg ttgaacatgc tgatacagaa ggcaataata aaacagtgt540
aaaatataaa tgccatacaa tgaagaagct cagcatgaca agaactctcc tgacagagaa600
gaaggaagga gaagaaaaca taggtggggt ggaatggctg caaataaagg ataatgattt660
ctcctatcga cccaacatga tttgtaactt tctacatgaa aatgaagacg aagaagtgg720
agcttcagcc ccagataaat ctttggaaat ggaagaggaa gagattcaaa tgaaccaccg780
gttcaaaccg ggggtttgtg aaccggggga acccattgcg ccttggaat t 831

```

<210> 50  
 <211> 744  
 <212> DNA  
 <213> Homo sapiens

<400> 50

```

tgaagttcta agagctttcc aagtttgga aggtgtccgg gttttctgcg attacttctc 60
tgagcatgaa cggaagtcac cctttgtgcc ttatgcggtg attttaatga taggtgtcat120
atataggagc gagtaatctg ttacattctt gtcttctctg atgcactcac aagcgggta180
ctaggtgaca agaaaacaaa gatcttattc aaaagagggtc ttacagcaac ccaacgtctc240
atcttcccat agtaaagatg acggcgctt gaggttaagct acaggcaaca ccacttccgc300
gtttctcttg cgccctgggt caagatggcg gatgaagcca cgcgacgtgt tgtgtctgag360
atcccggtgc tgaagactaa cgccggaccc cgagatcggt agttgtgggt gcagcgactg420
aaggaggaat atcagtcctt tatccggtat gtggagaaca acaagaatgc tgacaacgat480
tggttccgac tggagtccaa caaggaagga actcgggtgt ttggaaaatg ctggtatata540
catgacctcc tgaatatatga gtttgacatc gagtttgaca ttctatcac atatcctact600
actgccccag aaattgcagt tcctgagctg gatggaaaaga cagcaaagat gtacaggtag660
gactgaatag gagatggcaa agagtcaaag aaagccttaa ggaagaactt cgtggcgagg720
gggagagcat caggaagagt agct 744

```

<210> 51  
 <211> 2017  
 <212> DNA  
 <213> Homo sapiens

<400> 51

```

tgcgacccga ggcgccgagc aagatggcgg cgcgagtgtc gcgcgcccgc ggaggcgctg 60
ggccggcgccg ctcttcgagc gggcgggccc ctgcagcctc ctgcccaggc tccggacatg 120
gacatcttcc agcaacagat ctcgagaaga cagctggcta aaatccttat ttgtccggaa 180
agttgatcca agaaaagatg cccactccaa tctcctagcc aaaaaggaaa caagcaatct 240
atacaaatta cagtttcaca atgttaaacc ggaatgccta gaagcataca acaaaatttg 300
tcaagagggtg ttgccaaaga ttcacgaaga taaacactac ccttgactt ttggtggggac 360
ttggaacacg tgggtatggcg agcaggacca agctgtccac ctctggagggt atgaaggagg 420
ctatccagcc ctacacagaag tcatgaataa actcagagaa aataaggaat ttttggaaat 480
tcgtaaggca agaagtgcac tgcttctctc caggaagaat cagctcctgt tggagttcag 540
tttctggaat gagcctgtgc caagatccgg acctaatata tatgaactca ggtcttacca 600
actccgacca ggaaccatga ttgaatgggg caattactgg gctcgtgcaa tccgcttcag 660
acaggatggt aacgaagccg tcggaggatt cttctctcag attgggcagc tgtacatggt 720
gcaccatctt tgggcttaca gggatcttca gaccagggaa gacatacggg atgcagcatg 780
gcacaaacat ggctgggagg aattggtata ttacacagtt ccacttattc aggaaatgga 840
atccagaatc atgatccac tgaagacctc gccctccag taaagctgta gagtttctat 900
gtgcctacat acatttctgt gacaagtatt tgcgtaaat taattttaat tgtgtatcaa 960
gtgaaaaaga aacactgagg ttttaagctg ctgtatatag cttgtgagaa acctttttc1020
tttaaaattt acataatcac aagaaaaggaa agaattacag ttggactgat tgtgacagt1080
ccttgctgctc ctctttgaaa cccccgtgt tgtccagtat acctataaac acttagccac1140
ttctccccac cctccagaag gggctccacgt tgaattctga atcatcttga aaataagatt1200
ccaaccacaa aaaaaattta gccatttctt tactaaaaaa aacaaaaaaa caaatctgtt1260
ttataatcac agatttttag acaaatttct tgtatcagga agaaatacaa attttgtcat1320
gtttctcaag cagtttttct gagtagtttc tgaggaggaa caaattacaa gtgtacccaa1380
taactgaaaa tgttttaact cactctcatt tgaagcagt ccacatagta gacaatgggt1440

```

```

tttccaagct gggcaaggta catttaatca gtaaatacagt ttcacatcat gtattgtgat1500
gtttcaatgt gagacacaaa aacaatggct tgaaacttgt gtatcatatg tgattttgaa1560
atgaacacct tgaatagcac taatTTTTat ttgtggattt tttctataac aaaacaagta1620
gctctaggaa aagaggTTTT attttGtaaa cgatcatttg tgacctcaga cactctctgg1680
ctaataTTTT aataagctca cagcagataa ttctgagatc atgggtgagg ggtgggtgat1740
gttgagattt aaattggcat aaagctgcat actttttgtc tagctgtttg atttcatttt1800
ttaatatagt atgccaattt tgtgactgtt accatgtgaa agtcctgttg aaatgaacaa1860
ttgtctgccc cacaatcaag aatgtatgtg taaagtgtga ataaatctca tatcaaatgt1920
caaactttta catgtgaatg attttctcaa agaacataga aaagtcaata aaatcctctt1980
aatttccaca aaaaaaaaaa aaaaaaaaaa aaaaaaa 2017

```

<210> 52  
 <211> 856  
 <212> DNA  
 <213> Homo sapiens

<400> 52

```

cgcagtgccg aggcgtgggg ctctctcctt gtcagtcggc gccgcgtgcg ggctgggtggc 60
tctgtggcag cggcggcgcg aggactccgg cactatgagc ggcttcagca ccgaggagcg120
cgccgcgccc ttctccctgg agtaccgagt ctctctcaaa aatgagaaaag gacaatatat180
atctccattt catgatattc caatttatgc agataaggat gtgtttcaca tggtagttga240
agtaccacgc tgggtctaag caaaaatgga gattgctaca aaggaccctt taaaccctat300
taaacaagat gtgaaaaaag gaaaacttcg ctatgttgcg aatttgttcc cgtataaagg360
atatacttgg aactatgggtg ccataccctca gacttgggaa gacccagggc acaatgataa420
acatactggc tgttgtgggtg acaatgaccc aattgatgtg tgtgaaattg gaagcaagggt480
atgtgcaaga ggtgaaataa ttggcgtgaa agttctaggc atattggcta tgattgacga540
aggggaaaacc gactggaaaag tcattgccat taatgtggat gatcctgatg cagccaatta600
taatgatatc aatgatgtca aacggctgaa acctggctac ttagaagcta ctgtggactg660
gtttagaagg tataagggttc ctgatggaaa accagaaaat gagtttgcgt ttaatgcaga720
atttaaagat aaggactttg ccattgatat tattaaaagc actcatgacc attggaaaagc780
attagtgact aagaaaacga atgggaaaaag gatcatgttg attgttcaac ttttcgttgg840
gccctcaaaa gtgtgc 856

```

<210> 53  
 <211> 540  
 <212> DNA  
 <213> Homo sapiens

<400> 53

```

gcatagacaa agggcctcag aatcgcgag gcgcaattgt gccctggttc gccaaagatgt 60
cgttcccaaa gtataagccg tcgagcctgc gactctgcc tgagaccctc gaccagccg120
aatacaacat atctccggaa acccgcgagg cgcaagcgag cggttggcca taagagccca180
gctgaaacga gagtacctgc ttcagtacaa cgatcccaac cgccgagggc tcacgaaaa240
tcctgccttg ctctcgttggg cctatgcaag aacaataaat gtctatccta atttcagacc300
cactcctaaa aactcactca tgggagctct gtgtggattt gggccctca tcttcattta360
ttatattatc aaaactgaga gggataggaa agaaaaactt atccaggaag gaaaattgga420
tcgaacattt cacctctcat attaatgtcg gcaatgatga ctatatgtat tcctgcctaa480
ataaatcatc tattaatcat taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagtcg540

```

<210> 54  
 <211> 1912  
 <212> DNA  
 <213> Homo sapiens

<400> 54

```

tgtgtgaggc ccaacagcgg aatcatcgat gcaggggcct gaattaatgt atctgtgatg 60
ttacagcctt tcgattatga tcccaatgag aaaagtaaac acaggttatg gttcagtcta 120
tgtttgtctt aactgacact tcagatatgg aagcagtatg gaaggaggca aaaccggaag 180
accttatgga ttcaaaaactt agatgtgtgt ttgaattgcc agcagagaat gataaaccac 240
atgatgtaga aataaataaa attatatcca caactgcac aaagacagaa acaccaatag 300

```

```

tgtctaagtc tctgagttct tctttgggatg acaccgaagt taagaagggtt atggaagaat 360
gtaagaggct gcaagggtgaa gttcagaggc tacgggagga gaacaagcag ttcaaggaag 420
aagatggact gcggatgagg aagacagtgc agagcaacag cccattttca gcattagccc 480
caactgggaa ggaagaaggc cttagcaccg ggctcttggc tctggtggtt ttgttcttta 540
tcgttggtgt aattattggg aagattgcct tgtagaggta gcatgcacag gatggtaaat 600
tggtattggtg gatccaccat atcatgggat ttaaatttat cataaccatg tgtaaaaaga 660
aattaatgta tgatgacatc tcacagggtct tgcctttaaa ttacccctcc ctgcacacac 720
atacacagat acacacacac aaatataatg taacgatctt ttagaaagtt aaaaatgtat 780
agtaactgat tgagggggaa aagaatgatc tttattaatg acaagggaaa ccatgagtaa 840
tgccacaatg gcatattgta aatgtcattt taaacattgg taggccttgg tacatgatgc 900
tggtattacct ctcttaaaat gacacccttc ctgcctgtt ggtgctggcc cttggggagc 960
tggaagccag catgtgggg agtgcggtca gtcacaca gtagtcccca cgtggcccac1020
tcccggccca ggctgctttc cgtgtcttca gttctgtcca agccatcagc tccttgggac1080
tgatgaacag agtcagaagc ccaaaggaat tgcactgtgg cagcatcaga cgtactcgtc1140
ataagtgaga ggcgtgtgtt gactgattga cccagcgctt tggaaataaa tggcagtgtc1200
ttgttcaact aaagggacca agctaaattt gtattggttc atgtagttaa gtcaaatgt1260
tattcagaga tgtttaatgc atatttaact tatttaatgt atttcatctc atgttttctt1320
attgtcaca gagtacagtt aatgctgcgt gctgctgaac tctgttgggt gaactgggtat1380
tgctgctgga gggctgtggg ctctctgtgc tctggagagt ctggtcatgt ggaggtgggg1440
tttattggga tgctggagaa gagctgccag gaagtgtttt ttctgggtca gtaataaaca1500
actgtcatag ggagggaaat tctcagtagt gacagtcaac tctaggttac cttttttaat1560
gaagagtagt cagtcttcta gattgttctt ataccacctc tcaaccatta ctacacttc1620
cagcgcccag gtccaagtct gagcctgacc tccccttggg gacctagcct ggagtcagga1680
caaatggatc gggctgcaga ggggtagaag cgagggcacc agcagttgtg ggtggggagc1740
aaggggaag agaaactctt cagcgaatcc ttctagtact agttgagagt ttgactgtga1800
attaatttta tgccataaaa gaccaacca gttctgtttg actatgtagc atcttgaaa1860
gaaaaattat aataaagccc caaaattaag aaaaaaaaaa aaaaaatact gc 1912

```

&lt;210&gt; 55

&lt;211&gt; 1962

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 55

```

tttttttttt ttttatcgag caagaatctg ttaacagttt tttttttttt tatgttaaatt 60
accatgggac aggattgtaa ggatgaaaaa ctcagtcaac aactgcctca caagggataa 120
gaaaaattct gccatgatat tagcaaagggt aaaggaggaa aaatttacac tgtaagaggc 180
accatttccc caaggaatac ctcttggcat ttctgaatg agtgggatta gcaatctaaa 240
taaatcatat ttcaagaggt aacagcaaca gataaaattt aaagggatta ttaaaaatac 300
atttacaaga ctctgaacaa ttcttgaact cttattaaaa ccacaaagaa agaacaattc 360
tttattttatg aatttcataa aggactcaat gtgcaactga catctgctag tgatgatctg 420
gtaatatata acctgtccag tagccgaaca gtttgttttt attgtgtttt ctaaccgtaa 480
gagatcatta aaggcaaagc ctatatgacg ctgtacacac aaaaaaatgg tcaccgtggg 540
ccatactacc aatgaaatgg taggtaaaca aatctttttc tgggtcaagag aaaaaaaaaa 600
aaaagaaaca gcactctgca tgcttcactc tacaagatga atttccttag aaagaatcca 660
atgaaaaatg ctgcaattac aacaagaagt gaaggaagag gactgggtgac attatctctg 720
aaggatgcag ttgaggttga tccaggttta tccgaatgtg ctacctttct gagccttaaa 780
ccttcatctc tcaggtgccg attttcttct gatagcttca tcatttctcc ctgaagtctt 840
ttacactctt ccattagttt ccttgtttct gtatcattaa gtgaaacact gtgtggtttt 900
ggcataggtc catcttgctt agatgcattc agtggaaacag ctttgctagg ttccatatca 960
ttcaatttat cattttcatt gggcatttca aatacgcac tcaatttgga atccattaat1020
tcactcaggt ttgcctcttt ccacacagct tccatatctg aagtgttttg tggagcaaaa1080
attgtctgta ccataaactt gtgtttactc ttttcattcg gatcatagtc aaagggtgtg1140
agcattactg aaacagtcac agttgaccct ggggtcaataa ttccactgtt gggcctcac1200
cagtaccggc gaggtgctgt agtcttcact ttgaaacaca cttttctatc cgatggattt1260
cgcaatttaa gattttagt gactacatct gtgaaggggc ctttgaattt gaggtctgtg1320
ggcggatcga ggaccaggat ctgctcgtct tgcgcattgg ccctgaggcg gacgccatcg1380
gagagacagc gcagagcagg gggcggttg ctgcgtgggg gcgggggagc atggcgagag1440
gggagggggg gcgagttcgc atctctcctt tttctgggta gactctgttc aaccacattc1500
ttatgttggc agatctgctt ccagattgat ttcttagagc ccatcacttt cacattcctg1560
attctgattt tgttttgtt tgtttgggtt ttctgaaact taaaatgctg ccccgaaaat1620
actatatatt tgagtttgtg ttctgaaagc ctccgtgctg ctggatcttt ggggggaaat1680

```

```

acaggatcct tcagcactga ggtgtttaag atttgcaact agcaatgcaa ttttttcta1740
atatggggat atttaccttt attaagaaat tatactaaac attgatgtcc ttgatcattt1800
tatgttctca tattactttt gattctacta tgattgtgtg gtggtgaaca aagatcattal860
caaacaaaaa ctgtaatttt gttatatttg attcaatgga atttacctaa aaaataaaga1920
ctaaaaatgt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa
1962

```

```

<210> 56
<211> 1458
<212> DNA
<213> Homo sapiens

<400> 56

```

```

cggctcgagc ggctcgagat tcgaggtcgt ggtggtcttg gaagagcgtc gaggggggccg 60
tggacgtgga atggggccgag gagatggatt tgattctcgt ggcaaacgtg aatttgatag 120
gcatagtgga agtgatagat ctggcctgaa gcacgaggac aaacgtggag gtacgaggatc 180
tcacaactgg ggaactgtca aagacgaatt aacagagtcc cccaaataca ttcagaaaca 240
aatatcttat aattacagtg acttgatca atcaaattg actgaggaaa cacctgaagg 300
tgaagaacat catccagtgg cagacactga aaataaggag aatgaagttg aagaggtaaa 360
agaggagggt ccaaaagaga tgactttgga tgagtggag gctattcaaa ataaggaccg 420
ggcaaaagta gaatttaata tccgaaaacc aaatgaaggt gctgatgggc agtggagaa 480
gggatttgtt cttcataaat caaagagtga agaggctcat gctgaagatt cggttatgga 540
ccatcatttc cggaagccag caaatgatat aacgtctcag ctggagatca attttggaga 600
ccttgccgc ccaggacgtg gcggcagggg aggacgaggt ggacgtgggc gtggtgggcg 660
cccaaaccgt ggcagcagga ccgacaagtc aagtgtctct gctcctgatg tggatgaccc 720
agaggcattc ccagctctgg cttaactgga tgccataaga caaccctggt tcctttgtga 780
acccttctgt tcaaagcttt tgcattgctta aggattccaa acgactaaga aattaaaaaa 840
aaaaagactg tcattcatac cattcacacc taaagactga attttatctg ttttaaaaat 900
gaactttctc cgctacacag aagtaacaaa tatggtagtc agttttgtat ttagaaatgt 960
attggttagc gggatgtttt cataattttc agagattatg cattcttcat gaatactttt1020
gtattgtctg ttgcaaatat gcattttcaa acttgaaata taggtgtgaa cagtgtgtac1080
cagtttaaaag ctttcaactc atttgtgttt tttaattaa gatttagaag tcccccaat1140
tacaaactgg ttttaaatat tggacatact ggttttaata cctgctttgc atattcacac1200
atggtcaact gggacatggt aaactttgat ttgtcaaatt ttatgctgtg tggataacta1260
actatatgta ttttaactta gttttaatat ttccattttt ggggaaaaat cttttttcac1320
ttctcatgat agctgttata tatatatgct aaacttttat atacagaaat atcagtactt1380
gaacaaattc aaaagcacat ttggtttatt aaccctgggc tgccctggca tggggcccat1440
ttgggggtcca aattataa
1458

```

```

<210> 57
<211> 2188
<212> DNA
<213> Homo sapiens

<400> 57

```

```

gggccccccc cccccccccc cccccccccc cccccccccc cccccccccc cccccccccc 60
ccccccccc cccccccccc cccccccccc cccccccccc cccccccccc cccccccccc 120
ccccccccc cccccccccc cccccccccc cccccccccc cccccccccc cccccccccc 180
ccccccccc cccccccccc cccccccccc cccccccccc cccccccccc cccccccccc 240
ccccccccc cccccccccc cccccccccc cccccccccc cccccccccc cccccccccc 300
ccaaccctcc cccacccccc cccctacaag tcacctggtt aagccaacct gaattctact 360
cacctgggag tgggaagtat tatgacagaa tgcgacgagg aggtgatgga tatgatgggt 420
gttatggagg ttttgatgac tatggtggct ataataatta cggctatggg aatgatggct 480
ttgatgacag aatgagagat ggaagaggta tgggaggaca tggctatggg ggagctgggt 540
atgcaagttc aggttttcat ggtggtcatt tcgtacatat gagagggttg ccttttcgtg 600
caactgaaaa tgacattgct aatttcttct caccactaaa tccaatacga gttcatattg 660
atattggagc tgatggcaga gccacaggag aagcagatgt agagtttggt acacatgaag 720
atgcagtagc tgccatgtct aaagataaaa ataacatgca acatcgatat attgaactct 780
tcttgaattc tactcctgga ggcggctctg gcatgggagg ttctggaatg ggaggctacg 840
gaagagatgg aatggataat cagggaggct atggatcagt tggagaagt ggaatgggga 900
acaattacag tggaggatat ggtactcctg atggtttggg tggttatggc cgtgggtggg 960
gaggcagtggt aggttactat gggcaaggcg gcatgagtgg aggtggatgg cgtgggatgt1020

```

```

actgaaagca aaaacaccaa catacaagtc ttgacaacag catctggtct actagacttt1080
cttacagatt taattttcttt tgtatttttaa gaactttata atgactgaag gaatgtgttt1140
tcaaaatatt atttggtaaa gcaacagatt gtgatgggaa aatgttttct gtaggtttat1200
ttgttgcata ctttgactta aaaataaatt tttatattca aaccactgat gttgatactt1260
tttatatact agttactcct aaagatgtgc tgccttcata agatttggtt tgatgtattt1320
tactattagt tctacaagaa gtagtgtggt gtaatttttag aggataatgg ttcacctctg1380
cgtaaactgc aagtcttaag cagacatctg gaataagact tgacaaataa ttagtgtaac1440
ttttttcttt agttcctcct ggacaacact gtaaatataa agcctaaaga tgaagtggct1500
tcaggagtat aaattcagct aattattttct atattattat ttttcaaag tcatttatca1560
ggcatagctc tgaacattg atgatctaag aggtattgat ttctgaatat tcataattgt1620
gttacctggg tatgagagt ttggaagctg aattctagcc ctagattttg gaggtaaac1680
ccttcagcac ttgaccgaaa taccaaaaat gtctccaaaa aattgatagt tgcaggttat1740
cgcaagatgt cttagagtag ggttaagggt ctcagtgaca caagaattca gtatttaaga1800
cataggtatt tactatggag tataattctc atagtgtat tttcagtttt ctgccaata1860
gagttcaataa aactgtataa atgatgactt taaaaaaatg taagcaacaa gtccatgtca1920
tagtcaataa aaacaatcct gcagttgggt tttgtatctg atccctgctt ggagttttag1980
tttaagaat ctatatgtag caaggaaaag gtgcttttta attttaatcc ctttgatcaa2040
tatggctttt ttccaaattg gctaattgat caaaatgaaa cctgttgatg tgaattcagt2100
tattgaactt gttacttgtt tttgccagaa atgttattaa taaatgtcaa tgtgggagat2160
aaaaaaaaa aaaaaaaaaa aaaaaaaa

```

2188

<210> 58  
 <211> 1548  
 <212> DNA  
 <213> Homo sapiens

<400> 58

```

ctcgcctagtt cgatcggtag cgggagcgga gagcggaccc cagagagccc tgagcagccc 60
caccgccgcc gccggcctag ttaccatcac accccgggag gggccgcagc tgccgcagcc 120
ggccccagtc accatcaccg caaccatgag cagcagggcc gagaccagc agccgccgc 180
ggcccccccc gcggcccccg cctcagcgc cgccgacacc aagcccgga ctacgggcag 240
cggcgagggg agcgggtggcc cgggcgccct cacatcggcg gcgcctgccg gcggggacaa 300
gaaggtcatc gcaacgaagg ttttgggaac agtaaaatgg ttcaatgtaa ggaacggata 360
tggtttcatc aacaggaatg acaccaagga agatgtattt gtacaccaga ctgccataaa 420
gaagaataac ccaggaagt accttcgcag tgtaggagat ggagagactg tggagtttga 480
tggtgttgaa ggagaaaagg gtgaggaggc agcaaagtgt acaggtcctg gtggtgttcc 540
agttcaaggc agtaaatatg cagcagaccg taaccattat agacgctatc cacgtcgtag 600
gggtcctcca cgcaattacc agcaaaatta ccagaatagt gagagtgggg aaaagaacga 660
gggatcggag agtgctcccc aaggccaggc ccaacaacgc cggccctacc gcaggcgaag 720
gttcccacct tactacatgc ggagacccta tgggcgtcga ccacagtatt ccaacctcc 780
tgtgcaggga gaagtgatgg aggggtgctga caaccagggt gcaggagaa aaggtagacc 840
agtgaggcag aatatgtatc ggggatatag accacgattc cgcaggggcc ctctcgcca 900
aagacagcct agagaggacg gcaatgaaga agataaagaa aatcaaggag atgagacca 960
aggtcagcag ccacctcaac gtoggtaccg ccgcaacttc aattaccgac gcagacgccc1020
agaaaaccct aaaccacaag atggcaaaga gacaaaagca gccgatccac cagctgagaa1080
ttcgtccgct ccgagggctg agcagggcgg ggctgagtaa atgccggctt accatctcta1140
ccatcatccg gtttagtcat ccaacaagaa gaaatatgaa attccagcaa taagaaatga1200
acaaaagatt ggagctgaag acctaaagt cttgcttttt gccggttgac cagataaata1260
gaactatctg cattatctat gcagcatggg gtttttatta tttttaccta aagacgtctc1320
tttttggtaa taacaaacgt gtttttttaa aaagcctggt ttttctcaat acgcctttaa1380
aggtttttaa attgtttcat atctggtcaa gttgagattt ttaagaactt catttttaat1440
ttgtaataaa agtttacaac ttgatttttt caaaaaagtc aacaaactgc aagcacctgt1500
taataaaggt cttaataaat tgtctttgtg taaaaaaaaa gggaatat 1548

```

<210> 59  
 <211> 1254  
 <212> DNA  
 <213> Homo sapiens

<400> 59

```

ggaccgcttc ccccgagcca gcagcagcgt ttgacgtcat cgtgcgtgtg gtgcccctgc 60

```

```

tgccggggct ggtgattgga ggaaaccccg tgtctgacgg agggctgtag cctgtgagca 120
gcgagatcca gggacagagt ctccagcctcg ccgctgctgc cgccgccgcc gccagagac 180
tgctgagccc gtccgtccgc cgccaccacc cactccggac acagaacatc cagtcattgga 240
taaaaatgag ctgggttcaga aggccaaact ggccgagcag gctgagcgat atgatgacat 300
ggcagcctgc atgaagtctg taactgagca aggagctgaa ttatccaatg aggagaggaa 360
tcttctctca gttgcttata aaaatgttgt aggagcccgt aggtcatctt ggagggctcg 420
ctcaagtatt gaacaaaaga cggaagggtg tgagaaaaaa cagcagatgg ctcgagaata 480
cagagagaaa attgagacgg agctaagaga tatctgcaat gatgtactgt ctcttttgga 540
aaagttcttg atccccaatg cttcacaagc agagagccaa agtcttctat ttgaaaatga 600
aaggagattt ctaccgttac ttggctgagg ttgccgctgg tgatgacaag aaagggattg 660
tcgatcagtc acaacaagca taccaagaag cttttgaaat cagcaaaaag gaaatgcaac 720
caacacatcc tatcagactg gggctggccc ttaacttctc tgggttctat tatgagattc 780
tgaactcccg cagagaaagc ctgctctctt gcaaaagacag cttttgatga agccattgct 840
gaacttgata cattaagtga agagtcatac aaagacagca cgctaataat gcaattactg 900
agagacaact tgacattgtg gacatcggat acccaaggag acgaagctga agcaggagaa 960
ggaggggaaa attaacccgc cttccaactt ttgtctgcct cattctaaaa ttacacagt 1020
agaccatttg tcatccatgc tgtcccacaa atagtttttt gtttacgatt tatgacaggt 1080
ttatgttact tctatttgaa tttctatatt ttccctgtgg gttttatgtt tagttttggg 1140
ggagtaggag ccagtttaac gtttggggag tttgtctgtt tttcgtcttt gagggtaggg 1200
ccagtatggg ggggtgttgg gattttttgt taccagtttt tgaggtgttt ttgg 1254

```

<210> 60

<400> 60

000

<210> 61

<400> 61

000

<210> 62

<400> 62

000

<210> 63

<211> 954

<212> DNA

<213> Homo sapiens

<400> 63

```

cctcttcttt ttctttttct tctttttttt ttctttttt ttttttgtga gagcagggtc 60
actttatttg tatagagact gcagagggac caggggcttt agctgttggc agctatggtg 120
tccttaatcc agtccacata gttgtagacc ttggtgtaga ctccaggcct gttcttcttg 180
gcacagccat agccccagga gacaattcct tggagctctc cattggagac cacagggcca 240
ccagaatcac cctggcagga atccttgccct ccctcgagga agcccacaca gaacatggtg 300
ttggtaatct ttccagggtg ggaggcttca cactcagcct ggctcagcac aggagcatcc 360
aggcactgca gctcgtctgg gtagtcggca ccagaactca gagtgttgcc ccagccggag 420
atgagggact cggtgccagc agctggaggg gcagtgggca gagagatggc ggacacgcgg 480
gaattgatga cggcaggtga ggagagcttg atcagcagga tgtcattgtc cagagtcagg 540
ctgttgattt tggggtggcg gatgatcttg gccgcattga tgaactgttc attcccctcc 600
aggacttcga tgttgtgctc tcccagtcct acctggatgc gggacttgta gcagtgcact 660
gctgacacca cccactgttc gctgatgagg gagccaccgc agaagtggta gccagaattc 720
aaggacacct ggtaggggac agaattctcc tcacagatgt agccccaac gatcttgtca 780
tcatcatcaa agggggcagc aacagcagct gcaacaaaagg taaggatcag aagtagattc 840
atgggtgtag agtgtgcctg attgctgggt gagaaccgt ctttatacct cccgaggatg 900
gggagaggag gtgtctgtga ggtgaggggt actgctcttc ccagcacaaa caca 954

```

<210> 64

<400> 64

000

<210> 65

<211> 2213

<212> DNA  
<213> Homo sapiens

<400> 65

```

ggcggaacccg cgggggggtcg aggcctgcct ctccgagagc tcctggcgcg gccgtcccgg 60
ccccggggccc cagggtgcgt tcccctagag agggattttc cgggtctcgt ggcagaggaa 120
caaccaggaa cttgggggtc agtctccacc ccacagtggg gcggtaccgt cccggataag 180
acccgctgtc tggccctgag taggggtgtg cctccgcagc cgcagaggag gagcgcagcc 240
ggcctcgaag aacttctgct tgggtggctg aactctgac ttgacctaga gtcattggcca 300
tggcaaccaa aggaggtact gtcaaagctg cttcaggatt caatgccatg gaagatgccc 360
agaccctgag gaaggccatg aaagggtcgc gcaccgatga agacgccatt attagcgtcc 420
ttgcctaccg caacaccgcc cagcgccagg agatcaggac agcctacaag agcaccatcg 480
gcagggactt gatagacgac ctgaagtacg aactgagtgg caacttcgag cagggtgattg 540
tggggatgat gacgcccacg gtgctgtatg acgtgcaaga gctgcgaagg gccatgaagg 600
gagccggcac tgatgagggc tgcctaattg agatcctggc ctcccggacc cctgaggaga 660
tccggcgcat aagccaaacc taccagcagc aatatggacg gagccttgaa gatgacattc 720
gctctgacac atcgttcatg ttccagcgag tgctgggtgtc tctgtcagct ggtgggaggg 780
atgaaggaaa ttatctggac gatgctctcg tgagacagga tgcccaggac ctgtatgagg 840
ctggagagaa gaaatggggg acagatgagg tgaaatttct aactgttctc tgttcccggg 900
accgaaatca cctgttgcat gtgtttgatg aatacaaaag gatattcacag aaggatattg 960
aacagagtat taaatctgaa acatctggta gctttgaaga tgctctgctg gctatagtaa1020
agtgcattgag gaacaaatct gcatattttg ctgaaaagct ctataaatcg atgaagggt1080
tgggcaccga tgataacacc ctcatcagag tgatgggtttc tcgagcagaa attgacatgt1140
tggatatccg ggcacacttc aagagactct atggaaaagtc tctgtactcg ttcataagg1200
gtgacacatc tggagactac aggaaaagtac tgcttggttct ctgtggagga gatgattaaa1260
ataaaaaatc cagaaggaca ggaggattct caacactttg aattttttta acttcatttt1320
tctacactgc tattatcatt atctcagaat gcttatttcc aattaaaacg cctacagctg1380
cctcctagaa tatagactgt ctgtattatt attcacctat aattagtcatt tatgatgctt1440
taaagctgta cttgcatttc aaagcttata agatataaat ggagattttta aagtagaaat1500
aaatatgtat tccatgtttt taaaagatta ctttctactt tgtgtttcac agacattgaa1560
tatattaaat ttttccatat tttcttttca gtgaaaaaatt ttttaaatgg aagactgttc1620
taaaatcact tttttcccta atccaatttt tagagtggct agtagtttct tcatttgaaa1680
ttgtaagcat ccggtcagta agaatgccc aagagtttct tatatttcat agtcaaagcc1740
ttgaaagcat ctacaaatct ctttttttag gttttgtcca tagcatcagt tgatccttac1800
taagtttttc atgggagact tccttcatca catcttatgt tgaaatcact ttctgtagtc1860
aaagtatacc aaaaccaatt tatctgaact aaattctaaa gtatggttat acaaaccata1920
tacatctggg taccaaacat aaatgctgaa cattccatat tattatagtt aatgtcttaa1980
tccagcttgc aagtgaatgg aaaaaaaat aagcttcaaa ctaggatttc tgggaatgat2040
gtaatgctct gaatttagta tgatataaag aaaacttttt tgtgctaaaa atacctttta2100
aaatcaattt tgttgattgt agtaatttct atttgcactg tgcttttcaa ctccagaaac2160
attctgaaga tgtacttgga ttaattaaaa aagttcactt tgtaaaaaaa aaa 2213

```

<210> 66

<400> 66

000

<210> 67

<211> 2878

<212> DNA

<213> Homo sapiens

<400> 67

```

cctcgtgcag gtgcaccgct tggtcctaaa agctctggag gatggccggg catatgggtc 60
tccatggtgc aacaaacaga tcacaagggtg cctaattgaa tgctcgagat aatataaata 120
taatgtggag gctgtggagc tgctaattcg caatcatttg gttaatatgc agcagtatga 180
tcttcacctg gcgcagctca tggagaatgg cttaaaactac atggctgtgg catttgctat 240
gcagttagta aaaatcctgc tgggtggatga aaggagtgtt gctcatgtta ctgaggcaga 300
tctgttccac accattgaaa ccctcatgag gattaatgct cattccagag gcaatgctcc 360
agaaggattg cccagctga tggagtagt gcgatccaac tatgaagcaa tgattgatcg 420
tgctcatgga ggcccaaact ttatgatgca ttctgggac tctcaagcct cagagtatga 480
tgaccctcca ggcctgaggg agaaggcaga gtatcttctg agggaatggg tgaatctcta 540

```

```

ccattcagca gcagctggcc ggcacagtac caaagctttc tctgcatttg ttggacagat 600
gcaccagcaa ggaatactga agaccgatga tctcataaca aggttctttc gtctgtgtac 660
tgaaatgtgt gttgaaatca gttaccgtgc tcaggctgag cagcagcaca atcctgctgc 720
caatccacc atgatccgag ccaagtgcga tcacaacctg gatgcctttg ttcgactcat 780
tgactgtctc gtgaaacact caggggaggc caccaacact gtcacaaaga ttaatctgct 840
gaacaaggct cttggtatag tagtgggagt tctccttcag gatcatgatg ttcgtcagag 900
tgaatttcag caacttcctt accatcgaat ttttatcatg cttctcttgg aactcaatgc 960
acctgagcat gtgttggaac ccattaattt ccagacactt acagctttct gcaatacatt 1020
ccacatcttg aggcctacca aagctcctgg ctttgtatat gcctggcttg aactgatttc 1080
ccatcggaata tttattgcaa gaatgctggc acatacgcca cagcagaagg ggtggcctat 1140
gtatgcacag ctactgattg atttattcaa atatttagcg cctttcctta gaaatgtgga 1200
actcaccaaa cctatgcaaa tcctctacaa gggcacttta agagtgtctg tggttctttt 1260
gcatgatttc ccagagtctt tttgtgatta ccattatggg ttctgtgatg tgatccacc 1320
taattgtatc cagttaagaa atttgatcct gagtgccttt ccaagaaaca tgaggctccc 1380
cgaccatttc actcctaata taaagggtga catgttgagt gaaattaaca ttgctccccg 1440
gattctcacc aatttcactg gagtaatgcc acctcagttc aaaaaggatt tggattccta 1500
tcttaaaact cgatcaccag tcactttcct gtctgatctg cgcagaacct acaggatatc 1560
aatgaacctg ggaatcgcta caacctccag ctcatcaatg cactggtgct ctatgtcggg 1620
actcaggcca ttgcgcacat ccacaacaag ggcagcacac cttcaatgag caccatcact 1680
cactcagcac acatggatat cttccagaat ttggctgtgg acttggacac tgagggctcg 1740
tatctctttt tgaatgcaat tgcaaatcag ctccgggtacc caaatagcca cactcactac 1800
ttcagttgca ccatgctgta cttttttgca gaggccaata cggaagccat ccaagaacag 1860
atcacaagag ttctcttgga acggttgatt gtaaataggc cacatccttg gggctctctt 1920
attaccttca ttgagctgat taaaaacca gcgtttaagt tctggaacca tgaatttgta 1980
cactgtgccc cagaaatcga aaagttattc cagtcggtcg cacagtgtct catgggacag 2040
aagcaggccc agcaagtaat ggaagggaca ggtgccagtt agacgaaact gcatctctgt 2100
tgtactgttc agtctagagg tctcactgca ccgagttcat aaactgactg aagaatcctt 2160
tcagctcttc ctgactttcc cagccctttg gtttgtgggt atctgcccc aactactgtt 2220
ggatcagcct cctgtcttat gtgggcacgt tccaaagttt aaatgcattt ttttgactct 2280
tggccaaaat ttagaagatg ctgtgaatat cattttgaac ttgtgtaaat acatgaaaga 2340
ggaaaacctt tgtctggaac ttcttggett tgtgcaagct gtgtccaagg caagtacata 2400
aactggtacc ttgtaatgaa gaggcagctg atgccatgca cttgtctgag ggcatagctc 2460
catgtcttct gacattcctg gtgtcccaaa gaatagcaaa aagccagttt gaattattgt 2520
taacttattt ttttaatgat gacaggggac cttgaaaaatc actaagttat taaaaatgtg 2580
gatgtgctag aattggatat gtccaggaac atgggaaggg ctactatttg gaatcccatg 2640
agtttccatt ttgtctctac ccaaacgtat tccaaagctg actgcatttg taccatctta 2700
tttcttttgg ggattataca cctcagccgc ctgagatggg ggtcagctct ttatataaag 2760
ggaaaccaga ccaggccata agcccacccc ctacctcac cccccccaca atcctctcct 2820
gaaactttaa aaaccagtgg ggatttttag gaaagggaac ccaaaccgcg attaatgt 2878

```

<210> 68  
 <211> 701  
 <212> DNA  
 <213> Homo sapiens

<400> 68

```

atgatatttt ggatgtagtc ttttgattgt ttaaatctta aaaagtaatg ggatcttttg 60
acactggggg atgttttatt tttatgtgtg caaattttta ccatattctt ttctagttaa 120
agaggaaaaa gcaagttgct ccagaaaaac ctgtaaagaa acaaaagaca ggtgagactt 180
cgagagccct gtcattctct aaacagagca gcagcagcag agatgataac atgtttcaga 240
ttgggaaaaa gaggtacgtt agtgttcgag attttaaagg caaagtgcga attgatatta 300
gagaatattg gatggatcct gaagggtgaa tgaaaccagg aagaaaaggt atttctttta 360
atccagaaca atggagccag ctgaaggaaac agatttctga cattgatgat ttaatctgtc 420
aactgtaaaa ttcgagccat ataaataaaa cctgtactgt tctagtgtt ttaatctgtc 480
tttttacatt ggcttttgtt ttctaaatgt tctccaagct attgtatgtt tggattgcag 540
aagaatttgt aagatgaata ctttttttta atgtgcatta ttaaaaatat tgagtgaagc 600
taattgtcaa ctttattaag gattactttg tctgccacc acctagtgtg aaataaaatc 660
aagtaataca atcttaaaaa aaaaaaaaaa aaaagtcgag c

```

<210> 69  
 <211> 817  
 <212> DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 69

```

gtttttttttt tttttttttt ttttttttaa gcacagaaag cttttattac cacagaggaa 60
atcaggaaat gctggaggca gcctcgtag ctgtgtgatc agggagggga cagcaggcgg120
gaacccgtca tcaatcatgt ctgggcagtc tcccaaccaa caggtttgtt tggttcaggal80
gaggcttttg ctgggctgtg tgtgtgtatg atcaggaagg tcagcctcaa caaatgggct240
tcttcctgga cataggacag ccagaatcgg ggacaccagc tgcacagaca ccaccttaa300
atggaaatca aattagggtc attacatcag gaagtacatt tcaccctgat cataaaagag360
ggacaaggga gcaactgggt ctactggata gcctttcttt tagataagat gcttttaaaa420
gttaaacatt ggcagggcct ttcccctagc taacagcaag cagcacacaa ttccaagtca480
gcttgtaaag cttttgttat ctttgttatt tgttattatt tggattttga acgaaattga540
tggagtacga gccggtagag gaatcctgtt tgatctggaa attttccgtg gagagcccaa600
aaggctggag aaccaagttc ccaagatctt ttaatttacc taacatctct tcttttagtc660
tttcattacg ttcttcaatt tgcttaggta atctcataca agcttctctt gcttgatgta720
ttgatgaagg ttcccgcctg ctgtccctc cctgatcaca cagctaacga ggctcctcca780
gcatttctg atttctctg tggtaataaa agctttc 817

```

&lt;210&gt; 70

&lt;211&gt; 2686

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 70

```

gcaaggccta ctgtcggctg ggaggggagg tgtagccggt ctttgggggt aggcggtagt 60
ggcggaagag gttcggcggc tgatggcgga tcaggatcgg aagcctgcgt aactttctcc 120
cttgatccgg gagtctttcc actggattca caatgacatc ctttcaagaa gtcccattgc 180
agacttccaa ctttgcccat gtcacttttc aaaatgtggc caagagttac ctccctaattg 240
cacacctgga atgtcattac accttaactc catatattca tccacatcca aaagattggg 300
ttggtatatt caaggttgga tggagtactg ctggtgatta ttacacgttt ttatggtccc 360
ctatgcctga acattatgtg gaaggatcaa cagtcaattg tgtactagca ttccaaggat 420
attaccttcc aaatgatgat ggagaatttt atcagttctg ttacgttacc cataaggggtg 480
aaattcgtgg agcaagtaca cctttccagt ttcgagcttc ttctccagtt gaagagctgc 540
ttactatgga agatgaagga aattctgaca tgttagtggt gaccacaaaa gcaggccttc 600
ttgagttgaa aattgagaaa accatgaaag aaaaagaaga actgttaaaag ttaattgccc 660
ttctggaaaa agaaacagca caacttcgag aacaagttgg gagaatggaa agagaactta 720
accatgagaa agaaagatgt gaccaactgc aagcagaaca aaagggtctt actgaagtaa 780
cacaaagctt aaaaatggaa aatgaagagt ttaagaagag gttcagtgat gctacatcca 840
aagcccatca gcttgaggaa gatattgtgt cagtaacaca taaagcaatt gaaaaagaaa 900
ccgaattaga cagtttaaag gacaaactca agaaggcaca acatgaaaga gaacaacttg 960
aatgtcagtt gaagacagag aaggatgaaa aggaacttta taaggtagat ttgaagaata1020
cagaaataga aaataccaag cttatgtcag aggtccagac tttaaaaaat ttagatggga1080
acaaagaaag cgtgattact catttcaaag aagagattgg caggctgcag ttatgtttgg1140
ctgaaaagga aaatctgcaa agaactttcc tgcttacaac ctcaagtaaa gaagatactt1200
gtttttttaa ggagcaactt cgtaaagcag aggaacaggt tcaggcaact cggcaagaag1260
ttgtctttct ggctaagaaa ctcatgtatg ctgtcaacgt acgagacaga acgatggcag1320
acctgcatac tgcacgcttg gaaaacgaga aagtgaaaaa gcagttagct gatgcagtg1380
cagaacttaa actaaatgct atgaaaaaag atcaggacaa gactgatata ctggaacacg1440
aactaagaag agaagttgaa gatctgaaac tccgtcttca gatggctgca gaccattata1500
aagaaaaatt taaggaatgc caaaggctcc aaaaacaaat aaacaaactt tcagatcaat1560
cagctaataa taataatgtc ttcacaaaga aaacggggaa tcagcagaaa gtgaatgat1620
cttcagtaaa cacagaccca gccacttctg cctctactgt agatgtaaag ccatcacctt1680
ctgcagcaga ggcagatttt gacatagtaa caaaggggca agtctgtgaa atgaccaaag1740
aaattgctga caaaacagaa aagtataata aatgtaaaca actcttgag gatgagaaag1800
caaaatgcaa taaatatgct gatgaacttg caaaaatgga gctgaaatgg aaagaacaag1860
tgaaaattgc tgaaaatgta aaacttgaaac tagctgaagt acaggacaat tataaagaac1920
ttaaaaggag tctagaaaaa ccagcagaaa ggaaaatgga agatggagca gatggtgctt1980
tttaccaga tgaaatacaa aggccacctg tcagagtccc ctcttgggga ctggaagaca2040
atgttgtctg cagccagcct agtgcgagcc ttagtgcggc tgatggctta gaggactctg2100
aggatagcaa agaagatgag aatgtgccta ctgtcctga tcctccaagt caacatttac2160
gtgggcatgg gacaggcttt tgctttgatt ccagctttga tgttcacaag aagtgtcccc2220

```

```

tctgtgagtt aatgttttctt cctaactatg atcagagcaa atttgaagaa catgttgaaa2280
gtcactggaa ggtgtgcccc atgtgcagcg agcagttccc tcttgactat gaccagcagg2340
tgtttgaaag gcatgtgcag acccattttg atcagaatgt tctaaatfff gactagttac2400
tttttattat gagttaatat agtttagcag taaaaaaaaa aaaaaaaacc acacctaaaa2460
tagaccactg aggagaccat agagcggatg ctttcatgca ccttttactg cactttctga2520
ccaggagcta ctttgagttt ggtgttacta ggatcagggt cagtctttgg cttatcaata2580
aattttaatc tctgttaatc ttacaaaaat taaaaaaaaa aaaaaaaat cgtactttat2640
ttatccctag ttgcagactg ctgaataaaag gtcaaggatt atccat 2686

```

&lt;210&gt; 71

&lt;400&gt; 71

000

&lt;210&gt; 72

&lt;211&gt; 922

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 72

```

ctgctctgaa aagccatctt tgcattgttc ctcatccgcc tccttgctcg cggcagccgc 60
ctccgccgcg cgctctctcc gccgccgagg actccggcag ctttatcgcc agagtccctg120
aactctcgct ttcttttttaa tcccctgcat cggatcaccg gcgtgccccca ccatgtcaga180
cgcagccgta gacaccagct ccgaaatcac caccaaggac ttaaaggaga agaaggaagt240
tgtggaagag gcagaaaaatg gaagagacgc ccttgctaac gggaatgcta atgaggaaaa300
tggggagcag gaggtgaca atgaggtaga cgaagaagag gaagaagggg ggtgatggtg360
aggaagagga tggagatgaa gatgaggaag ctgagtcagc tacgggcaag cgggcagctg420
aagatgatga ggatgacgat gtcgatacca agaagcagaa gaccgacgag gatgactaga480
cagcaaaaaa ggaaaagtta aactaaaaaa aaaaaggccg ccgtgacctt ttcacctcc540
acttcccgtc tcagaatcta aacgtggtca ccttcgagta gagaggcccc cccgccacc600
gtgggcagtg ccacccgcag atgacacgcg ctctccacca cccaacccaa accatgagaa660
tttgcaacag gggagggaaa aaggaccaa acttccaagg ccctgctttt tttcttaaaa720
gtacttttaa aagaaaattt gtttgtatgt tctatttaca ttgatagtg ttgtacatat780
tgttaggggt caaccatttt taatgatctc ggatgaccaa accagccttc ggaagcgttc840
tctggcctac ttctggactt ttacgttggt ggggtgttga ccatgttcaa ttataatccc900
aaaaagggga aaaaaaacct tt 922

```

&lt;210&gt; 73

&lt;211&gt; 870

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 73

```

ggaagtggcg gtgcgagggc tgctgcacag cgagcggagc cgcggtccgg acggcagcgc 60
gtgccccgag ctctccgcct cccccgcgcc gccagccgag gcagctcgag cccagtcgc120
ggccccagca gcagcgccga gagcagcccc agtagcagcg ccatggccgg gtggaacgcc180
tacatcgaca acctcatggc ggacgggacc tgtcaggacg cggccatcgt gggctacaag240
gactcgccct ccgtctgggc cgccgtcccc gggaaaacgt tcgtcaacat cacgccagct300
gaggtgggtg tcttggttgg caaagaccgg tcaagttttt acgtgaatgg gctgacactt360
gggggcccaga aatgttcggt gatccgggac tcaactgctg aggatgggga atttagcatg420
gatcttcgta ccaagagcac cgggtggggc cccaccttca atgtcactgt caccaagact480
gacaagacgc tagtccctgt gatgggcaaa gaaggtgtcc acggtggttt gatcaacaag540
aaatgttatg aaatggcttc ccaccttcgg cgttcccagt actgacctcg tctgtccctt600
ccccttcacc gctccccaca gctttgcacc cctttctctc ccatacacac acaaaccatt660
ttattttttt ggccattacc ccatacccct tattgtgtcc aaaaccacat gggctggggg720
ccagggtggt atggacagac acctccccct acccatatcc ctcccgtgtg tgggtggaaa780
acttttgttt tttgggggtt tttttttctg aataaaaaaa attctactta aaaaaaaaa840
aaaaaaaaaa aaaaaaaaaa aaaggggggg 870

```

&lt;210&gt; 74

&lt;211&gt; 1418

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 74

```

ataaaagagg aaagagtgcc caggtcttca ctccactgcg actgcagaac tcagagctgc 60
tcttcctctg tggccagttg gggaccagca tcatgaagtg gatggtggtg gtcttgggtc 120
gcctccagct cttggaggca gcagtgggtc aagtgccctt gaagaaattt aagtctatcc 180
gtgagaccat gaaggagaag ggcttgctgg gggagtccct gaggaccac aagtatgatc 240
ctgcttgaa gtaccgcttt ggtgacctca gcgtgacctc cgagcccatg gcctacatgg 300
atgctgccta ctttgggtgag atcagcatcg ggactccacc ccagaacttc ctggtccttt 360
ttgacaccgg ctctcccaac ttgtgggtgc cctctgtcta ctgccagagc caggcctgca 420
ccagtcactc ccgcttcaac cccagcgagt cgtccaccta ctccaccaat gggcagacct 480
tctccctgca gtatggcagt ggcagcctca ccggttctt tggctatgac acctgactg 540
tccagagcat ccaggtcccc aaccaggagt tcggcttgag tgagaatgag cctggtacca 600
acttcgtcta tgcgcagttt gatggcatca tgggcttggc ctaccctgct ctgtccgtgg 660
atgaggccac cacagctatg cagggcatgg tgcaggaggg cgccctcacc agcccctct 720
tcagcgtcta cctcagcaac cagcagggtt ccagcggggg agcggttgtc tttgggggtg 780
tggatagcag cctgtacacg gggcagatct actgggccc tgctacccag gaactctact 840
ggcagattgg cattgaagag ttctctatcg gcggccaggc ctccggctgg tgttctgagg 900
gttgccaggc catcgtggac acaggcacct cctgtctcac tgtgccccag cagtacatga 960
gtgctcttct gcaggccaca ggggcccagg aggatgagta tggacagttt ctctgaaact 1020
gtaacagcat tcagaatctg cccagcttga ccttcatcat caatggtgtg gaggctccct 1080
tgccaccttc ctctatatc ctcagtaaca acggctactg caccgtggga gtcgagccca 1140
cctacctgtc ctcccagaac ggccagcccc tgtggatcct cggggatgtc ttcctcaggt 1200
cctactatcc cgtctacgac ttgggcaaca acagagtagg ctttgccact gccgcctaga 1260
cttgctgcct cgacacgtgg gctccccctc tcctcttgac cctgcacctt ctagggcat 1320
tgtatctgtc tttccactct ggattcagcc ttcttttctt ggactctgga ctttctctaa 1380
taataaatag ttcttctttt aaaaaaaaaa aaaaaaaa

```

&lt;210&gt; 75

&lt;400&gt; 75

000

&lt;210&gt; 76

&lt;211&gt; 1712

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 76

```

gtggcagaaa acctcatgac acaatctctc cgctccctg tgttgggtgga ggatgtctgc 60
agcagcattt aaattctggg agggcttggg tgtcagcagc agcaggaggg gcagagcaca 120
gcatcgtcgg gaccagactc gtctcaggcc agttgcagcc ttctcagcca aacgccgacc 180
aaggaaaact cactaccatg agaattgcag tgatttgctt ttgcctccta ggcatacact 240
gtgccatacc agttaaacag gctgattctg gaagttctga ggaaaagcag ctttacaaca 300
aatacccgaa tgctgtggcc acatggctaa acctgacct atctcagaag cagaatctcc 360
tagccccaca gaatgctgtg tctctgaa gaaaccaatga ctttaaaca gagaccttc 420
caagtaagtc caacgaaagc catgaccaca tggatgatag ggatgatgaa gatgatgacg 480
accatgtgga cagccaggac tccattgact cgaacgactc tgatgatgta gatgacactg 540
atgattctca ccagtctgat gagtctcacc attctgatga atctgatgaa ctggtcactg 600
attttccac ggacctgcca gcaaccgaag ttttactcc agttgtcccc acagtagaca 660
catatgatgg ccgaggtgat agtgtgggtt atggactgag gtcaaaatct aagaagtttc 720
gcagacctga catccagtag cctgatgcta cagacgagga catcacctca cacatggaaa 780
gcgaggagtt gaatgctgca tacaaggcca tccccgttgc ccaggacctg aacgcgctt 840
ctgattggg cagcgtggg aaggacagtt atgaaacgag tcagctggat gaccagagtg 900
ctgaaaccca cagccacaag cagtccagat tatataagcg gaaagccaat gatgagagca 960
atgagcattc cgatgtgatt gatagtcagg aactttccaa agtcagccgt gaattccaca 1020
gccatgaatt tcacagccat gaagatatgc tgggtgtaga ccccaaaagt aaggaagaag 1080
ataaacacct gaaatttctg atttctcatg aattagatag tgcattctct gaggtcaatt 1140
aaaaggagaa aaaaatacaat ttctcacttt gcttttagtc aaaagaaaa atgctttata 1200
gcaaaatgaa agagaacatg aaatgcttct ttctcagttt attggttgaa tgtgtatcta 1260
tttgagtctg gaaataacta atgtgtttga taattagttt agtttgtggc ttcattggaa 1320
ctccctgtaa actaaaagct tcagggttat gtctatgttc attctataga agaaatgcaa 1380

```

```

actatcactg tattttaata tttgtttatc tctcatgaat agaaatttat gtagaagcaal440
acaaaatact tttaccact taaaaagaga atataacatt ttatgtcact ataactctttt1500
gttttttaag ttagtgata ttttgttggtg attatctttt tgtgggtgga ataaactcttt1560
tatcttgaat gtaataagaa tttgggtgggtg tcaattgctt atttgttttc ccacggtgt1620
ccagcaatta ataaaacata acctttttta ctgcctaaaa aaaaaaaga gaaaagaaaa1680
aaaagaaaag aaaaaaaggg gagggagggg ag

```

1712

&lt;210&gt; 77

&lt;400&gt; 77

000

&lt;210&gt; 78

&lt;211&gt; 1273

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 78

```

accgcccccg ctgtgggtct cagcagctcg ggcggcgagg ggggtggcag cggcaaggca 60
gccagtttc gcgaaggctg tggcgcgccc gcggcccgca ggcaccggc acgcgccttc 120
cccgcaggca cccggcacgc gccttccccg ccgccacgat gcccagagg aaggctcagct 180
ccgcccgaagg gccgccaagg aagagcccaa gaggagatcg gcgcggtgt cagctaaacc 240
tcctgcaaaa gtggaagcga accgaaaaag gcagcagcga aggataaatc ttcagacaaa 300
aaagtgcaaa caaaaggga aaggggagca aagggaaaaac aggccgaagt ggctaacca 360
gaaactaaag aagacttacc tgcggaaaac ggggaaacga agactgagga gagtccagcc 420
tctgatgaag caggagagaa agaagccaag tctgattaat aaccatatac catgtcttat 480
cagtgggtccc tgtctccctt cttgtacaat ccagaggaat atttttatca actattttgt 540
aaatgcaagt tttttagtag ctctagaaac atttttaaga aggagggaat cccacctcat 600
cccatttttt aagtgtaaat gctttttttt aagaggtgaa atcatttgct ggttgtttat 660
tttttggtac aaccagaaaa tagtggtggg tattgaatta tgggagggtc tgactgtctc 720
gggtgtcagc ttaacattcc acagatgggg ggttagtttt tatatcctat aatacaaaagc 780
atattaaatg gcaatatgga gtcagtcctg catttaatgt cttgaacatt ttaaattact 840
tctattacca tgtgttttt tagtagaatt gtttcctaaa gaaaaccact ctttgactcat 900
ggctctctct gccagaattg tgtgcactct gtaacatctt tgtggtagtc ctgttttctc 960
aataactttg ttactgtgct gtgaaagatt acagatttga acatgtagtg tacgtgctgt1020
tgagttgtga actggtgggc cgtatgtaac agctgaccaa cgtgaagata ctggtacttg1080
atagcctctt aaggaaaatt tgcttccaaa ttttaagctg gaaagtcact ggaataaact1140
taaaaaagaa ttacaatata tggcttttta gaatttcgtt acgtatgtta agatttgtgt1200
acaaattgaa atgtctgtac tgatcctcaa ccaataaaat ctcagttatg aaaataaaaa1260
aaaaaaaaaa aaa

```

1273

&lt;210&gt; 79

&lt;211&gt; 2342

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 79

```

cctcggacca ccggaactggc ctggggcgagg acgtgggcgc gggggcgcg cgtgcggcac 60
gctgcagggc tgaagcggcg gcggcggtgg ggactgcacg tagcccgcg ctcggcatgg 120
ctctcctggg gctcgggtctg gtgagctgta ccttctttct ggcagtgaat ggtctgtatt 180
cctctagtga tgatgtgac gaattaaact catcaaatt caaccgagaa gttattcaga 240
gtgatagttt gtggcttgta gaattctatg ctccatgggt tggctactgt caaagattaa 300
caccagaatg gaagaaagca gcaactgcat taaagatgt tgtcaaagtt ggtgcagttg 360
atgcagataa gcattattcc ctaggagggtc agtatgggtg tcagggaatt cctaccatta 420
agatttttgg atccaacaaa aacagaccag aagattacca aggtggcaga actggtgaag 480
ccattgtaga tgctgcgctg agtgctctgc gccagctcgt gaaggatcgc ctcgggggac 540
gaagcggagg atacagttct ggaaaacaag gcagaagtga tagttcaagt aagaaggatg 600
tgattgagct gacagacgac agctttgata agaattgtct ggacagtga gatgtttgga 660
tggttgagtt ctatgctcct tgggtgtggc actgcaaaaa cctagagcca gagtgggctg 720
ccgcagcttc agaagtaaaa gagcagacga aaggaaaagt gaaactggca gctgtggatg 780
ctacagctaa tcagggtctg gcctcccgat acgggattag aggatttctt acaatcaaga 840
tatttcagaa aggcgagttc cctgtggatt atgacgggtg gcggacaaga tccgacatcg 900

```

```

tgtccccgggc ccttgatttg ttttctgata acgccccacc tcctgagctg cttgagatta 960
tcaacgagga cattgccaa aggacgtgtg aggagcacca gctctgtgtt gtggctgtgc1020
tgccccatat ccttgatact ggagctgcag gcagaaattc ttatctggaa gttcttctga1080
agttagcaga caaatacaaa aagaaaatgt ggggggtggc gtggacagaa gctggagccc1140
agtctgaact tgagaccgcg ttggggattg gagggtttgg gtaccccgcc atggccgcca1200
tcaatgcacg caagatgaaa ttgctctgc taaaaggctc cttcagttag caaggcatca1260
acgagtttct cagggagctc tcttttgggc gtggctccac ggcacctgta ggaggcgggg1320
ctttccctac catcggttag agagagcctt gggacggcag ggatggcgag cttcccggtg1380
aggatgacat tgacctcagt gatgtggagc ttgatgactt agggaaagat gaggttgtgag1440
agccacaaca gaggcttcag accattttct tttcttggga gccagtggat tttccagca1500
gtgaagggac attctctaca ctcatgatgac tctaccagtg gccttttaac caagaagtag1560
tacttgattg gtcatttgaa aacactgcaa cagtgaactt ttgcatctca agaaaacatt1620
gaaaaattct atgaattgtt gttagcgggtg aattgagtcg tattctgtca cataatattt1680
tgaagaaaaa ttgagctgtc aaacattttt ctctctgact gctgcttgaa tgttcttggg1740
ggctgtttct tatgtatggg ttttttttaa tgtgatccct tcatttgaat attaatggct1800
ttttccatta aagaataaaa tattttggac aatgccgata aatgtatgaa gttagtatcc1860
acatcataaa ttcagagtga tgttttagcag taaatcaata ttttgaagt atacacagat1920
gtctttcctc ccacaaaact tttttaaaca aaaaacaaga cctcttttct ttagatgggt1980
ccacctatgc ccaccacaac agagatttta ctggaaacc gggctcagt agaatgatt2040
tcttgcccaa tatttgtctt tgggctgtct ctatgacta attattaagg aatctagctg2100
gttatcagc tcaaggcttt ctatgttgtt aatgaacctc aaaatagccg ttaagacatg2160
aaatacagca gcaggttacc aatgcgaaca ggtagtctgc atttatgtaa aacattcaga2220
aaatgaagtt ttgaatttgt tggaaacattc aaaggacttg agagcatttt attgtaactt2280
aaaaaaaata atacaactgt cactaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa2340
aa

```

2342

&lt;210&gt; 80

&lt;211&gt; 1959

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 80

```

gcagttatat aataagtttg ggagacaaaa tgatacgcac acgagagaag atgaagaaga 60
tactcaaaagt tccaaatctg aagaacatca tttgtactct aatccaatca aagaagaaat 120
gactgagtct aagttctcta agtactctga aatgagttag gaaaaacgag ccaaacttcg 180
tgaaatttag ctcaaagtta tgaagtttca ggatgaattg gaatctggga aaagacctaa 240
aaaaccaggc cagagttttc aggagcaagt agaactact agagataaac ttcttcaacg 300
agagaaagag aaagagttag aaagagaacg agaaagagac aagaaagata aagaaaaatt 360
ggaatctcgc tccaaagaca agaaggaaaa agatgagtgt actccgacaa ggaaggaaa 420
gaagaggcga cacagtacat ccccagccc atctcgagc agcagtggta gcagtagtaa 480
atccccatca ccaaaatcgg agcgatcaga gcgttcagaa agatctcata aagagagctc 540
acgggtccagg tcacttcaca aagattctcc tagagatgtt agcaaaaaag ccaaaagatc 600
accatctggt tcaaggacac ctaaaaggct taggcgatca cggcttagat ctcttaaaaa 660
atcaggaaa aagtcagat cccagtcag atctccacac aggtctcata aaaagtcaaa 720
gaaaaacaaa cactgacgta aatttttaag atgctgtcac ttattggaaa tgcgatttgt 780
tttgtgcctg aacggctgtt tttttaaaaa aacaaaaaat caaatgaaag agcattcctg 840
gggttttttg tttgtttgtg tatgcatgtg taaactcatg agcaactgca tctgtagatc 900
tgtcattgtt ttatattgtg taaattactt tcattgtggc tatttctcaa gatgaaattt 960
ttattgttct aatggatttc atcagaaatg tgtataatgg atctgctgac agtagtagta1020
ttttgtttta ggatgtttgt acttagcaaa aataatacag atgtcttccc cccttttcta1080
gctttgacaa tttgaattag atttcaaaata aaatctgaac agaaaactat aatgttgttt1140
ttttgcccc cgggtgatat taagtccctt aaagtcctac tgagtttcac actactgttg1200
tgacttctat acctgatgca ctttataaag cccagtgttc aagtagctta agttttatat1260
tcttaagat gactatccaa attaagggac ctgagactcc tatttgggtg tttgctaacc1320
atttgctttt gataagtttc tcttgggtaa tactaatacc cagatatcaa agactaggtal380
gatatggcat ggcgttttgt tagtggaaat cctggctaaa acattttttt cacagaagca1440
atatgatttc catacatcca acccatgttc tgagcaacta cttactttta gggggaaatt1500
aaatatcttt tcatttcctc ttctattatg aaagaagttt atttgtaaaa caaattttct1560
aacaagggtt ggccatagaa ttctcttgta tgattgttga ccttttataa tcttctgtag1620
gctacttttc aaacactggc atcagaatat tttttataag tttgtgttta aacagcttag1680
ttggtcccc ccccactcc caagagactt ggggttagtt atagctttta gtaaaattta1740
aaaataaaat gtttttcagg aaacttcgta tctaattggt tgtaaattca aggtgcaaaa1800

```

agttgattta aaccatttgc agagttgaac tctattatga aaataaattt gctacggtat1860  
 gaggaagaaa taaaacttgt gtaatgttgg tcataatact gctataaata taataaaggg1920  
 ttatgtagaa ttgaactgac aaaaaaaaaa aaaaaaaaaa 1959

<210> 81

<211> 3708

<212> DNA

<213> Homo sapiens

<400> 81

gccccattta tcacgcacgg tagacaagct tttttttttt ttttttttta cagcttataa 60  
 cacaactttt attagaaaaa ttatacataa catagcatca actattttca agaacaatat 120  
 taaacccgat aagcaacaaa aaccagacta acaaaatgtg taacaagaaa ctaatgacct 180  
 ttctaaaatc aaacattcaa ttatctacaa tgtcttttta caaacgggga aaactccttg 240  
 gtttacaggc acatcatatt gaatataaag ctgcaatagc aattttatac aattaccact 300  
 ctgaagaaac tgaatcatta aaacagtaat tacgagttca caaattttaa acatttcaca 360  
 taatttttaa ttattgggta tacactgaag tctgagtttc aaaagtgatt tttttttccc 420  
 acaaaagttt caacacttaa gctagaactt tcagtgttaa ctttgcccta aaaagttaag 480  
 acatattctg ataatacata cagtcacatg atttctgatg ctatctgggc tgtaataaat 540  
 aaagtcttta tttggatgta tttttcttca attaaattac aggaaactgg atataggatt 600  
 tcggtgcaac gctattaaag ttccaaacca ggagtgtgca gcactggaaa aggagatcag 660  
 tactaaaact tacaataaat atcagagaag ccgttagttt ttacagcatc gtctgcttaa 720  
 aagctaagtt gaccaggtgc ataatttccc atcagtcctgt ccttgtagta ggcagggcaa 780  
 tttctgtttt catgatcgga atactcaaat atatccaaac atctttttta aactttgatt 840  
 tatagctcct agaaagttat gttttttaat agtcactcta ctctaatacag gcctagcttt 900  
 gctcattttg gagcctcact aaaataacag atttctgatg agccaagttc atcagaaaga 960  
 ctcaaattgga atgatttaca aaatagaaca ctttaaacca ggctcagtcct atctttttgt1020  
 agctgaaggc tatcagtcac aacacaattt cgcgtacacc tctgctcatt atggaattac1080  
 acttaaaacg aatctcaaga gggtagccat tgtgttttca gataccatcc ctaaggagag1140  
 tggtaaacag gaagattgcc agtggtactg atggaaagaa gtgtttgttt gttttttttt1200  
 cttgtcaaaag acttacacca tagtttttaa ttaaactgtc aggcattttc tcagacaggt1260  
 tttccttttc aatgcagtaa tgaagaacta agataaaaaat catgactttt gactgccact1320  
 caacattatt acatgcacca atattgcaca catctgttct gaactgttaa aatcatcttc1380  
 tgaatccttg ggggtgctgt ttctccatca gaacacaaac acaaccatc taatcagttt1440  
 ccctcaaaga tgaaattgac aaatttaatt tactggaaaa aaatgaagaa ggaaaaaggc1500  
 aaagactttg tacagacaaa aatctaagtt ttctcaaagg gttctgtgtc ccctacacat1560  
 gggggcaatt tgtaagcact agtgaatcaa aactagctta taatgcttct agctccttat1620  
 ataatatgga accttggtcc aggtgttgct ttttaagaac aagaagctgt agaactttgc ggcagcttgt1740  
 agctcaatag cttgctgctt ttttaagaac aactgatatg attcagctcc agtttagca1800  
 tttctgttgc tatttcgaca taactcaagc aaactgatat tggtccatct tctttcttcc1860  
 agagcacgct gaagaccatg aagcatctgc tgatcctttt tttcatcctc ttctttttcc1920  
 tgatcttgat cgtcccttga tgcattctca tctcttctct ctggtattag ctgacagata1980  
 ttctctttct ccttctcttt ttctggcaga agttctaaact cccatctgct ctgggtcaat2040  
 tttggagggt cttctggggg aagctctaca ggtggtattt ggcatactct actcatctat2100  
 ttgtccagct tttcgcttaa ctccctgagg tgggtggtgga ggcatactct caataatggg2160  
 gtttggtctg ctggcctcca tcaactgact ctggaggcgg tctctctctag gaacctctgg2220  
 ctcatcgata acatcaagct gctgatgctg ctgttgctgg tctctctctt tctctctttt2280  
 attttcaaat tctttgagga attcatccaa attatctgcc tctctctctt tctctctttt2340  
 tctaaggctc tctggtacaa gcggtgtaag acagcgtgta aagagcttca gtagtctgtt2400  
 attccacaaa ggctgagcag gtaaaagaaa cagtttttct actcctctct tctctttcca2460  
 catcatcaat ttcttggtgg cgggtgccaga tccaaagtag taacaatatc tgaataatca2520  
 ctaagttggg ctctaattgt cttgctatcc aactctttga cactgtcaac aattagcttc2580  
 ctcttctctc ttggttttgg ttctttaaca gttatatcaa taggctccaa tgcaaatggg2640  
 tcttctctct ttggaacaag tgttggttga tcagtcattg ttcaacggga2700  
 tccactgaat caggactatc agggccaccc attgatacat tatcatctc atccatctcg2760  
 tcatgtgcag gctgctctgg caacatcacc cctgcctcag agagggcagg gggatcatca2820  
 aagataccgc catcattatt actaataagt ttgtcatcta atattccacc atcatttctc2880  
 tctccaaaat tatcatcctt atattgatct tcatattcta aatgggttaat tttctcattc2940  
 agattgctgg tgctctgttc agactctaat aggaggttag aagtagtagt gcttactaac2980  
 atgtcgtcat cctcaaaagc actgccttct ctcattatct cagcatcatc cattccaaa3000  
 tcacccaaaat cattttcttg taaaatactg atgttcccaa cttcttctct catggttatc3060  
 tcttccactc tactctgatt caagctgaac tgctgggcca catcgatgtc atctaagtca3120

```

ggcagtggtc gatcaaagtc atgaaattct tcaggtaaag taatggcatt ataagctgct3180
tcccgatattt cctcaggcag gtcaaccaca cctgcccga aagccatctt tatcttaagt3240
aatgcttcat tacagtctgc aagaaggat ttggctttcc tgtgatagat tgcgaactact3300
cccagtaaga gatgtcctga tgctcgtaat gccattttta cctttggtga gatgatactc3360
ttccacgctg ctctctaaat tacactcgaa cacatgggct ttggttagct tcttatccca3420
atgggcccgt agccaaattc ttgccagagg ccctctttta ctgagaacaa aatgtgcgta3480
gaacattgtt ctggctggct atgaaaacag aagaaaacct tgctctccgc tgggagttgg3540
gcggtcggg ttggccgggg aggggaaaag ggtcggggga gggggtggg aaagggggga3600
gcccttgcca ggtgtagctt ccgagcagct ccccgccccc cacagccggc gcctccttcc3660
cgattcactc aaacaaacaa gatggctgcc gtttaacccg ggctcttc 3708

```

&lt;210&gt; 82

&lt;211&gt; 3045

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 82

```

gtccattgcc caaaatccgc tatgaaagct tgaccaatcc ccagtaaatt agacctctgg 60
gaaaagagct gccatattac ccatacccca aacaaccaag atcgaactct cactattgtg 120
gatactggaa ttggaatgac caaggctgac ttgatcaata accttggtag tatcgccaag 180
tctgggacca aagcggttcat ggaagctttg caggctggtg cagatatctc tatgattggc 240
cagttcgggtg ttggttttta ttctgcttat ttggttgctg agaaagtaac tgtgatcacc 300
aaacataacg atgatgagca gtacgcttgg gagtccctcag cagggggatc attcacagt 360
aggacagaca caggtgaacc tatgggtcgt ggaacaaaag ttatcctaca cctgaaagaa 420
gaccaaactg agtacttggg ggaacgaaga ataaaggaga ttgtgaagaa acattctcag 480
tttattggat atcccattac tctttttgtg gagaagggaac gtgataaaga agtaagcgat 540
gatgaggctg aagaaaagga agacaaagaa gaagaaaaag aaaaagaaga gaaagagtcg 600
gaagacaaac ctgaaattga agatgttggg tctgatgagg aagaagaaaa gaaggatggg 660
gacaagaaga agaagaagaa gattaaggaa aagtacatcg atcaagaaga gctcaacaaa 720
acaaagccca tctggaccag aaatcccgcg gatattacta atgaggagta cggagaattc 780
tataagagct tgaccaatga ctgggaagat cacttggcag tgaagcattt ttcagttgaa 840
ggacagttgg agtactagag ccttctattt gtcccacgac gtgctccttt tgatctgttt 900
gaaaacagaa agaaaaagaa caatatcaaa ttgtatgtac gcagagtttt catcatggat 960
aactgtgagg agctaattcc tgaatatctg aacttcatta gaggggtggg agactcggag1020
gatctccctc taaacatatc ccgtgagatg ttgcaacaaa gcaaaatttt gaaagttatc1080
aggaagaatt tgggtcaaaaa atgcttagaa ctctttactg aactggcgga agataaagag1140
aactacaaga aattctatga gcagttctct aaaaacataa agcttggaa acacgaagac1200
tctcaaaatc ggaagaagct ttcagagctg ttaaggtagt acacatctgc ctctgggtgat1260
gagatgggtt ctctcaagga ctactgcacc gctaactcag agaactgaag acatatctat1320
tatatcacag gtgagaccaa ggaccaggta gctaactcag cctttgtgga acgtcttcgg1380
aaacatggct tagaagtgat ctatatgatt gagccattg atgagtactg tgtccaacag1440
ctgaaggaa ttgaggggaa gacttttagt tcagtcacca aagaaggcct ggaacttccal1500
gaggatgaag aagagaaaaa gaagcaggaa gagaaaaaaa caaagtttga gaacctctgc1560
aaaatcatga aagacatatt ggagaaaaaa gttgaaaagg ttggttgtgtc aaaccgattg1620
gtgacatctc catgctgtat tgtcacaagc acatatggct ggacagcaaa catggagaga1680
atcatgaaag ctcaagccct aagagacaac tcaacaatgg gttacatggc agcaaaagaa1740
cacctggaga taaaccctga ccattccatt attgagacct taaggcaaaa ggcagaggct1800
gataagaacg acaagtctgt gaaggatctg gtcactttgc tttatgaaac tgcgctctg1860
tcttctggct tcagtctgga agatcccag acacatgcta acaggatcta caggatgatc1920
aaacttggct tgggtattga tgaagatgac cctactgctg atgataccag tgctgctgta1980
actgaagaaa tgccaccctc tgaaggagat gacgacacat cacgcatgga agaagtagac2040
taatctctgg ctgagggatg acttacctgt tcagtagctc acaattcctc tgataatata2100
ttttcaagga tgtttttctt tatttttgtt aatattaaaa agtctgtatg gcatgacaac2160
tactttaagg ggaagataag atttctgtct actaagtgat gctgtgatac cttaggcact2220
aaagcagagc tagtaatgct ttttgagttt catgttgggt tattttcaca gattggggta2280
acgtgcactg taagacgtat gtaacatgat gtttaacttt tgtggtctaa agtgtttagc2340
tgtcaagccg gatgcctaag tagaccaa atgtgttatt aagtgttctg agctgtatct2400
tgatgtttag aaaagtattc gttacatctt gtaggatcta ctttttgaa ttttcatctc2460
ctgtagttag caattctgca tgtactagtc ctctagaaga aggttaaact gaagcaactt2520
gatggaagga tctctccaca gggcttgggt tccaaagaaa agtattgttt ggaggagcaa2580
agttaaaagc ctacctaagc atatcgtaaa gctgttcaaa aataactcag acccagctct2640
gtggatggaa atgtagtgtc cgagtcacat tctgttcaaa gttgtaacaa atacagatga2700

```

```

gttaaaagat attgtgtgac agtgtcttat ttagggggaa aggggagtat ctggatgaca2760
gttagtgcca aaatgtaaaa catgaggcgc tagcaggaga tgggttaaaca ctactgtctc2820
caaggggtga catggtcttc ccagcatgta ctacagcagg gtgggggtgga gcacatgtag2880
gcacagaaaa caggaatgca gacaacatgc atccccctgc tccatgagtt acatgtgttc2940
tcttagtgtc cacgttgttt tgatgttatt catggaatac cttctgtgct aaatacagtc3000
acttaattcc ttggccaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 3045

```

<210> 83  
 <211> 2815  
 <212> DNA  
 <213> Homo sapiens

<400> 83

```

cagtggcgcc gcaaccagcc ttctagggcg gcggaggagt ggagtcaaca tatcaatgga 60
gcaagtcaca gtcgtcgatg ccagcttctt cttgaaatct acccagaatg gaatcctgac 120
aatgatacag gacacacaat ggggtgatcca ttcatgttgc agcagtctac aaatccagca 180
ccaggaattc tgggacctcc acctccctca tttcatcttg ggggaccagc agttggacca 240
agaggaaatc tgggtgctgg aaatggaaac ctgcaaggac ctagacacat gcagaaaggc 300
agagtggaaa ctagcagagt tgttcacatc atggattttc aacgagggaa aaacttgaga 360
taccagctat tacagctggg agaaccattt ggagtcattt caaatcatct gattctaaat 420
aaaattaatg aggcattttat tgaaatggca accacagagg atgctcaggc cgcagtggat 480
tattacacaa ccacaccagc gttagtattt ggcaagccag tgagagttca tttatcccag 540
aagtataaaa gaataaagaa acctgaagga aagccagatc agaagtttga tcaaaagcaa 600
gagcttggac gtgtgataca tctcagcaat ttgccgcatt ctggctattc tgatagtgtc 660
gttctcaagc ttgctgagcc ttatgggaaa ataaagaatt acatattgat gaggatgaaa 720
agtcaggctt ttattgagat ggagacaaga gaagatgcaa tggcaatggg tgaccattgt 780
ttgaaaaaag ccctttgggt tccaggggaga tgtgtgaagg ttgacctgtc tgagaaatat 840
aaaaaactgg ttctgaggat tccaaacaga ggcattgatt tactgaaaaa agataaatcc 900
cgaaaaagat cttactctcc agatggcaaa gaatctccaa gtgataagaa atccaaaact 960
gatggttccc agaagactga gagtccaacc gaagtaaaga acaagaagag aagtcagggt1020
aagatgggtg gaaagacaca aaggatgacc agacagagca ggaacctaat atgcttcttg1080
aatctgaaga tgagctactt gtagatgaag aagaagcagc agcactgcta gaaagtggca1140
gttcagtggt agacgagacc gatcttgcta atttagggtga tgtggcttct gatgggaaaa1200
aggaacctac agataaagct gtgaaaaaag atggaagtgc ttcagcagca gcaaaagaaa1260
agcttaaaaa ggtggacaag atcgaggaac ttgatcaaga aaacgaagca gcgttgaaa1320
atggaattaa aaatgaggaa aacacagaac caggtgtgta atcttctgag aacgctgatg1380
atcccaacaa agatacaagt gaaaacgcag atgggtcaaag tgatgagaac aaggacgact1440
atacaatccc agatgagtat agaattggac catatcagcc caatgttcct gttggtatag1500
actatgtgat acctaaaaa ggggttttact gtaagctgtg ttcactcttt tatacaaatg1560
aagaagttgc aaagaatact cattgcagca gccttctctca ttatcagaaa ttaaagaaat1620
ttctgaataa attggcagaa gaacgcagac agaagaagga aacttaagat gtgcaaggag1680
atttaatgat ttcaaaagaa ataattgggtc tttgttttta atgttaacct ttttaataa1740
caatactgat agttagaaga aaactattgt actcttttgt tttagtggag aaataataga1800
tgtctgttca tgtgttaagt gttatagcaa aaaaaatata catatggtta agttaatgaa1860
tagtttttgt tttatcagaa tggcaacaga cagaagtact ttgtagagat tgacttctta1920
agctacttaa gacaacttgc accactaaga aaaaaatgta gaaccatttg gaaaaatgaa1980
athtagtagt tccaagtttc aaagaaatgt caacatttta ttccattcaa taaagaacaa2040
aaccaatagt gtttttatta ctttcatctg aaacattcca tgttttaatc tgagccttgc2100
agactttcat ttggagtgtg aacccgtttt gggtgcattt catttttggg gaacttaatt2160
aacgtgagat tggcaattga aatgcagggt cagttttctg ttaatgtcat gctgtgtgtt2220
aggtaataag aaatattaag taattggctt tagattttgt aatttttttc cctgagttcc2280
tgctagattt cgtattctag tagtcaatgt attttcagtg aaatgcaaaa atattcccat2340
tatctttgac cagtattaat ttttgagatc ttactgcttg tcacttgaat cccgtgattg2400
tcatacatct ctggtataag caacatttga tttttgaagt gtgtagacca tctcttcata2460
ttttcaagat gtaattttac atttctgcat ttttaaaaca gtttggccat aatcctagat2520
gcacgcttct aattcatgta cctgcacatg tgacctttgt gaacagaaat ttgcatgtat2580
aatttgtgtt tacttgtaac tttctggtta tatactgctt atatctgtgg attcaagtta2640
ctgaagtga taccaataaa aagaaaaccc taggccatgt taattgggtta tacatgtttg2700
gaatgttaac caaaaaaaaa aacagtgtgt gtttttatcc gctcttaaac tttgtgcatg2760
ctttaacaat ttactgcttt taaatctaga gtgaattcct aaagagctgc cgcta 2815

```

<210> 84



<211> 3462  
 <212> DNA  
 <213> Homo sapiens

<400> 84

```

ctggatcgta caagaaggga gacaaggacc actgacaaga taaggcctag caggaaacga 60
agcggctctt tccgctatct gccgcttgtc caccggaagc gagttgacac acggcaggtt 120
cccggccgga agaagcgacc aaagcgcttg aggaccggca acatgggtgcg gtcggggaat 180
aaggcagctg ttgtgctgtg tatggacgtg ggctttacca tgagtaactc cattcctggt 240
atagaatccc catttgaaca agcaaagaag gtgataacca tgtttgtaca gcgacaggtg 300
tttgctgaga acaaggatga gattgcttta gtcctgtttg gtacagatgg cactgacaat 360
cccccttctg gtggggatca gtatcagaac atcacagtgc acagacatct gatgtacca 420
gattttgatt tgctggagga cattgaaagc aaaatccaac caggttctca acaggctgac 480
ttcctggatg cactaatcgt gagcatggat gtgattcaac atgaaacaat aggaaagaag 540
tttgagaaga ggcataattga aatattcact gacctcagca gccgattcag caaaagtcag 600
ctggatatta taattcatag cttgaagaaa tgtgacatct ccctgcaatt cttcttgcc 660
ttctcacttg gcaaggaaga tggaaagtggg gacagaggag atggccccct tcgcttaggt 720
ggccatgggc cttccctttcc actaaaagga attaccgaac agcaaaaaga aggtcttgag 780
atagtgaaaa tgggtgatgat atcttttagaa ggtgaagatg ggttgatga aatttattca 840
ttcagtga gaactgagaaa actgtgcgtc ttcaagaaaa ttgagaggca ttccattcac 900
tggccctgcc gactgacctat tggctccaat ttgtctataa ggattgcagc ctataaatcg 960
attctacagg agagagttaa aaagacttgg acagttgtgg atgcaaaaac cctaaaaaaa1020
gaagatatac aaaaagaaac agttttattgc ttaaatgatg atgatgaaac tgaagtttta1080
aaagaggata ttattcaagg gttccgctat ggaagtgata tagttccctt ctctaaagtg1140
gatgaggaac aaatgaaata taaatcggag gggaagtgtc tctctgtttt gggattttgt1200
aaatcttctc aggttcagag aagattcttc atgggaaatc aagtctctaa ggtctttgca1260
gcaagagatg atgaggcagc tgcagttgca ctttccctcc tgattcatgc tttggatgac1320
ttagacatgg tggccatagt tcatatgct tatgacaaaa gagctaatac tcaagtcggc1380
gtggcttttc ctcatatcaa gcataactat gactgttttag tgtatgtgca gctgcctttc1440
atggaagact tgcggcaata catgttttca tccttgaaaa acagtaagaa atatgctccc1500
accgaggcac agttgaaatgc tgttgatgct ttgattgact ccatgagctt ggcaaaagaa1560
gatgagaaga cagacacctt tgaagacttg tttccaacca ccaaaatccc aaatcctcga1620
tttcagagat tatttcagtg tctgctgcac agagctttac atccccggga gctctacct1680
ccaattcagc agcatatttg gaatatgctg aatcctcccg ctgaggtgac aacgaaaagt1740
cagattcctc tctctaaaaa aaagacctt tttcctctga ttgaagccaa gaaaaaggat1800
caagtgactg ctccaggaaat tttccaagac aaccatgaag atggacctac agctaaaaaa1860
ttaaagactg agcaaggggg agccacttc agcgtctcca gtctggctga aggcagtgtc1920
acctctgttg gaagtgtgaa tctgctgaa aacttccgtg ttctagtga acagaagaag1980
gccagctttg aggaagcgag taaccagctc ataaatcaca tcgaacagtt tttggatact2040
aatgaaacac cgtattttat gaagagcata gactgcattc gagccttccg ggaagaagcc2100
atgaagtttt atgaagagca gcgctttaac aacttctctga aagcccttca agagaaagt2160
gaaattaaac aattaaatca tttctgggaa attgttgtcc aggatggaat tactctgatc2220
accaaagagg aagcctctgg aagttctgtc acagctgagg aagccaaaaa gtttctggcc2280
cccaaagaca aaccaagtgg agacacagca gctgtatttg aagaaggtgg tgatgtggac2340
gatttatttg acatgatata ggtcgtggat gtatggggaa tctaagagag ctgccatcgc2400
tgtgatgctg ggagttctaa caaaacaagt tggatgcggc cattcaaggg gagccaaaat2460
ctcaagaaat tccagcagg ttacctggag gcggatcatc taattctctg tggaaatgaa2520
acacacatat atattacaag ggataattta gacccatac aagtttataa agagtcattg2580
ttattttctg gttggtgtat tattttttct gtggtcttac tgatctttgt atattacata2640
catgctttga agtttctgga aagtagatct tttcttgacc tagtatatca gtgacagttg2700
cagcccttgt gatgtgatta gtgtctcatg tggaaacctg gcatggttat tgatgagttt2760
cttaaccctt tccagagtcc tcctttgcct gatcctccaa cagctgtcac aacttgtgtt2820
gagcaagcag tagcatttgc ttcctcccaa caagcagctg ggttaggaaa accatgggta2880
aggacggact cacttctctt tttagttgag gccttctagt taccacatta ctctgcctct2940
gtatataggt ggttttcttt aagtgggggt ggaaggggag cacaatttcc cttcatactc3000
cttttaagca gtgagttatg gtggtggtct catgaagaaa agaccttttg gcccaatctc3060
tgccatatca gtgaaccttt agaaactcaa aaactgagaa atttactaca gtagttagaa3120
ttatatcact tcaactgttct ctacttgcaa gcctcaaaga gagaaagttt cgttatatta3180
aaacacttag gtaacttttc ggtctttccc atttctacct aagtcagctt tcatctttgt3240
ggatggtgtc tcctttacta aataagaaa taacaaagcc cttattctct tttttcttg3300
tcctcattct tgccttgagt tccagttcct ctttgggtga cagacttctt gttacctagt3360
cacctctgtc ttcagcacc tcataagtcg tcaactaatac acagttttgt acatgtaaca3420

```

ttaaaggcat aaatgactca aaaaaaaaaa aaaaaaaaaa aa

3462

<210> 85  
 <211> 668  
 <212> DNA  
 <213> Homo sapiens

<400> 85

```

atagggccgg tgctgcctgc ggaagccggc ggctgagagg cagcgaactc atctttgcca 60
gtacaggagc tcgtgccctg gcccacagcc cacagccccc agccatgggc tgggacctga 120
cggatgaagat gctggcgggc aacgaattcc aggtgtccct gagcagctcc atgtcgggtg 180
cagagctgaa ggcgagatc acccagaaga tcggcggtgca cgccttcag cagcgtctgg 240
ctgtccaccc gagcgggtgt gcgctgcagg acaggggtccc ccttgccagc cagggcctgg 300
gccccggcag cacggtcctg ctggtggtgg acaaatgcga cgaacctctg agcatcctgg 360
tgaggaataa caagggccgc agcagcacct acgaggtgag gctgacgcag accgtggccc 420
acctgaagca gcaagtgcgc gggctggagg gtgtgcagga cgacctgttc tggctgacct 480
tcgaggggaa gcccctggag gaccagctcc cgctggggga gtacggcctc aagcccctga 540
gcaccgtgtt catgaatctg cgcctgcggg gaggcggcac agagcctggc gggcggagct 600
aagggcctcc accagcatcc gagcaggatc aagggccgga aataaaggct gttgtaaaga 660
gaaaaaaaaa
668

```

<210> 86  
 <211> 671  
 <212> DNA  
 <213> Homo sapiens

<400> 86

```

ggaaaccggg ctcatatgaac tcgcctgcag ctcttgggtt ttttgtggct tccttcgtta 60
ttggagccag gcctacaccc cagcaaccat gtccaaggga cctgcagttg gtattgatct 120
tggcaccacc tactcttgtg tgggtgtttt ccagcacgga aaagtcgaga taattgccaa 180
tgatcaggga aaccgaacca ctccaagcta tgcgccttt acggacactg aacggttgat 240
cggatgatgc gcaaagaatc aagttgcaat gaacccacc aacacagttt ttgatgccaa 300
acgtctgatt ggacgcagat ttgatgatgc tgttgcctag tctgatatga aacattggcc 360
ctttatgggt gtgaatgatg ctggcaggcc caaggtccaa gtagaataca agggagagac 420
caaaagcttc tatccagaag aggtgtcttc tatggttctg acaaagatga aggaaattgc 480
agaagcctac cttgggaaga ctgttaccac tgcttgtggt cacagtgcga gcttacttta 540
atgactctca gcgtcaggct accaaaagat gctggagact attgatggc tgcaatgtac 600
tttaggaatt atttaatgga gccaaacttg tgcttggtta tttctttacg ggtttgggca 660
aaaaaagggt t
671

```

<210> 87  
 <400> 87  
 000

<210> 88  
 <211> 1108  
 <212> DNA  
 <213> Homo sapiens

<400> 88

```

agtggaggag ggagagacgc tggccccgga cccgaggggc gtgggcatcg ggaggcgggc 60
ccgggttagg ggcgggaccg ccgcctgggt aaaggcgctt atttcccagg cagccgctgc 120
agtcgccaca cctttgcccc tgctgcgatg accctgtcgc cacttctgct tcggacgtcc 180
ccacggcggc ggtgcaggcg tcccctctgc aagcgttaga cttctttggg aatgggccac 240
cagttaacta caagacaggc aatctatacc tgcgggggccc cctgaagaag tccaatgcac 300
cgcttgtcaa tgtgaccttc tactatgaag cactgtgcgg tggctgccga gccttccctga 360
tccgggagct cttcccaaca tggctgttgg tcatggagat cctcaatgtc acgctgggtg 420
cctacggaaa cgcacaggaa caaatgtca tggcagggtg ggagttcaag tgccagctgc 480
gagaagagga gtgcaaattc aacaagggtg aggcctcgct gttggatgaa cttgacatgg 540
agctagcctt cctgaccatt gtctgcatgg aagagtttga ggacatggag agaagtctgc 600

```

```

cactatgcct gcagctctac gccccagggc tgtcgccaga cactatcatg gagtgtgcaa 660
tgggggacccg cggcatgcag ctcatgcacg ccaacgcccc gcggaacagat gctctccagc 720
caccgcacga gtatgtgccc tgggtcaccg tcaatgggaa acccttggaa gatcagaccc 780
agctccttac ccttgtctgc cagttgtacc agggcaagaa gccggatgtc tgcccttctc 840
caaccagctc cctcaggagt gtttgcttca agtgatggcc ggtgagctgc ggagagctca 900
tggaaggcga gtgggaaccc ggctgcctgc ctttttttct gatccagacc ctccggcacct 960
gctacttacc aactggaaaa ttttatgcac cccatgaagc ccagatacac aaaattccac1020
cccatgatca agaactcctgc tccactaaga atggtgctaa agtaaaacta gtttaataag1080
cccaaaaaaa aaaaccgcgt cggtcgac 1108

```

<210> 89  
 <211> 720  
 <212> DNA  
 <213> Homo sapiens

<400> 89

```

aaagcagccg ccggcgcccg gtgcctcaca gcacgctgcc acgccgacgc agacccctct 60
ctgcacgcca gcccgcgccg acccaccatg gccacagttc agcagctgga aggaagatgg120
cgcctgggtg acagcaaagg ctttgatgaa tacatgaagg agctaggagt gggaatagct180
ttgcgaaaaa tgggcgcaat ggccaagcca gattgtatca tcacttgtga tggtaaaaaac240
ctcaccataa aaactgagag cactttgaaa acaacacagt tttcttgtac cctgggagag300
aagtttgaag aaaccacagc tgatggcaga aaaactcaga ctgtctgcaa ctttacagat360
ggtgcattgg ttcagcatca ggagtgggat gggaaggaaa gcacaataac aagaaaattg420
aaagatggga aattagtggg ggagtgtgtc atgaacaatg tcacctgtac tcggatctat480
gaaaaagtag aataaaaaatt ccatcatcac tttggacagg agttaattaa gagaatgacc540
aagctcagtt caatgagcaa atctccatac tgtttctttc tttttttttt cttactgtg600
ttcaattatc tttatcataa acattttaca tgcagctatt tcaaagtgtg ttggattaat660
taggatcatc cctttgggta ataaataaat gtgtttgtgc taaaaaaaaa aaaaaaaaaa720

```

<210> 90  
 <211> 837  
 <212> DNA  
 <213> Homo sapiens

<400> 90

```

ctctcgcgag gattggctgt tagcggcggt gtagttaagc tcgtgtaacg gcggcggtgt 60
cggcagctgc tgtagcgaag agagtttggc gcgatgtctc acaccatttt gctggtacag120
cctaccaaga ggccagaagg cagaacttat gctgactacg aatctgtgaa tgaatgcatg180
gaaggtgttt gtaaaatgta tgaagaacat ctgaaaagaa tgaatcccaa cagtcctctc240
atcacatatg acatcagtcg gttgtttgat ttcacgatg atctggcaga cctcagctgc300
ctggtttacc gagctgatac ccagacatac cagccttata acaaagactg gattaaagag360
aagatctacg tgctccttcg tcggcaggcc caacaggctg ggaaataatt gtgttggaag420
cactgggggg gttgggggtg gcttggaaca caggtgtgta cagcgtgctg tagtggaagt480
tttgtatcat agtaatcctg tttccacttt gttatactct agccaagatt gactgtatta540
gatgaaatgt gaggatcttg ttcaatcgga aacccccgtt acctcctctt tttctttctc600
tttctttttt tttttttact taaacatttt tatgatgatt tagatggaag ttgttcttcg660
tcacttaatg ttgggtccag tccttcaact gttcatactc actttataac attcacatac720
taacccttct tcaagatggg gtgggggggt gaaatgcagt ttagccatgt cctcaagata780
aagtcttggt aaaaataaat aaatgtcctt tagttataaa aaaaaaaaaa aaaaaaa 837

```

<210> 91  
 <211> 498  
 <212> DNA  
 <213> Homo sapiens

<400> 91

```

gtagggctcag cgtcggaggc ggtagtgcag gtggcggttc cttgaggaag agtgagggtt 60
ccaacttttc tgcttatctg ggaggtgttg ggcgcgga ctcgagatgt cagagaaaaa120
gcagccggta gacttaggtc tggttagagga agacgacgag tttgaagagt tccctgccga180
agactgggct ggcttagatg aagatgaaga tgcacatgtc tgggaggata attgggatga240

```

```

tgacaatgta gaggatgact tctctaataca gttacgagct gaactagaga aacatgggtta300
taagatggag acttcatagc atccagaaga agtgttgaag taacctaaac ttgacctgct360
taatacattc tagggcagag aaccaggat gggacactaa aaaaatgtgt ttatttcatt420
atctgcttgg atttatttgt gtttttgtaa cacaaaaaat aaatgttttg atataaaaag480
gaaagagaaa aattgcgg

```

498

&lt;210&gt; 92

&lt;211&gt; 1077

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 92

```

cggctcgagc tggtacaaca gggcacacgt gtttcacgtt gacaggtttg cttgggacgc 60
tagtaaccat gggcttgctg acttagccaa agaagagtta agaagaaaat acacacaagt 120
atacagactg ttctagttt cttagactta tctgcatatt ggataaaaata aatgcaattg 180
tgctcttcat ttaggatgct ttcattgtct ttaagatgtg ttaggaatgt caacagagca 240
aggagaaaaa aggcagtcct ggaatcacat tcttagcaca cctacacctc ttgaaaatag 300
aacaacttgc agaattgaga gtgattcctt tcctaaaagt gtaagaaaagc atagagattt 360
gttcgtattt agaattggat cacgaggaaa agagaaggaa agtgattttt ttccacaaga 420
tctgtaatgt tatttccact tataaaggaa ataaaaaatg aaaaacatta tttggatatc 480
aaaagcaaat aaaaacccaa ttcagtctct tctaagcaaa attgctaaaag agagatgaac 540
cacattataa agtaatcttt ggctgtaagg cattttcatc tttccttcgg gttggcaaaa 600
tattttaaag gtaaaacatg ctggtgaacc aggggtgttg atggtgataa gggaggaata 660
tagaatgaaa gactgaatct tcctttgttg cacaaataga gtttggaaaa agcctgtgaa 720
aggtgtcttc tttgacttaa tgtctttaaa agtatccaga gatactacaa tattaacata 780
agaaaagatt atatattatt tctgaatcga gatgtccata gtcaaatttg taaatcttat 840
tcttttgtaa tatttattta tatttattta tgacagtga cttctgatt ttacatgtaa 900
aacaagaaaa gttgaagaag atatgtgaag aaaaatgtat ttttcctaaa tagaaataaa 960
tgatcccatt ttttggtaaa aaaaagtatg tgagatttat tcgtaaactg gactacttta1020
tttctaaata agagattccc tacctgcgtc ctacaagcag ttcagaatgc catgcct 1077

```

&lt;210&gt; 93

&lt;211&gt; 1755

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 93

```

cgcagggctg cttgtgatct ggtacgagga ttatgcaagt tttttgaggg acctgtgaca 60
ggaatcttct ctggttatgt taattccatg ctgcaggaat acgcaaaaaa tccatctgtc 120
aactggaaac acaaagatgc agccatctac ctagtacat ctttggcatc aaaagcccaa 180
acacagaagc atggaattac acaagcaaat gaacttgtaa acctaaactga gttctttgtg 240
aatcacatcc tccctgattt aaaatcagct aatgtgaatg aatttctctgt ccttaaagct 300
gacggtatca aatatattat gattttttaga aatcaagtgc caaaagaaca tcttttagtc 360
tcgattcctc tcttgattaa tcatcttcaa gctgaaagta ttgttgttca tacttacgca 420
gctcatgctc ttgaacggct ctttactatg cgagggccta acaatgccac tctctttaca 480
gctgcagaaa tcgcaccgtt tgttgagatt ctgctaacaa accttttcaa agctctcaca 540
cttcttggtc cttcagaaaa tgaatatatt atgaaagcta tcatgagaag tttttctctc 600
ctacaagaag ccataatccc ctacatccct actctcatca ctacagcttac acagaagcta 660
ttagctgtta gtaagaaccc aagcaaacct cactttaatc actacatggt tgaagcaata 720
tgtttatcca taagaataac ttgcaaagct aaccctgctg ctggtgtaaa ttttgaggag 780
gctttgtttt tgggttttac tgaaatctta caaaatgatg tgcaagaatt tattccatac 840
gtctttcaag tgatgtcttt gcttctggaa acacacaaaa atgacatccc gtcttctcat 900
atggccttat ttcctcatct ccttcagcca gtgctttggg aaagaacagg aaatattcct 960
gctctagtga ggcttcttca agcattctta gacgcggtt caaacacaat agcaagtgt1020
gcagctgaca aaattcctgg gttactaggt gtctttcaga agctgattgc atccaaagca1080
aatgaccacc aagggttttta tcttctaaac agtataatag agcacatgcc tctgaaatca1140
gttgaccaat ataggaaaca aatcttcatt ctgctattcc agagacttca gaattccaaa1200
acaaccaagt ttatcaagag ttttttagtc tttattaatt tgtattgcat aaaatatggg1260
gcaactagcac tacaagaaat atttgatgg atacaaccaa aaatgtttgg aatggtttgg1320
gaaaaaatta ttattcctga aattcagaag gtatctggaa atgtagagaa aaagatctgt1380
gcggttggca taaccaaatt actaacagaa tgtcccccac tgatggacac tgagtatacc1440

```

```

aaactgtgga ctccattatt acagtctttg attggtcttt ttgagttacc cgaagatgat1500
accattcctg atgaggaaca ttttattgac atagaagata caccaggata tcagactgcc1560
ttctcacagt tggcatttgc tgggaaaaaa gagcatgata ctgtaggtca aatggtgaat1620
aaccacaaaa ttcacctggc acagtcaact cacaagttgt ctaccgcctg tccaggaagg1680
gttccatcaa tggcaaagaa ctctgtgata aatggagact ttaatgggag ggcaaaaggal1740
tagtagtagt tctgg                                     1755

```

<210> 94  
 <211> 1545  
 <212> DNA  
 <213> Homo sapiens

<400> 94

```

gttcggcgag cgagcacctt cgacgcggtc cggggacccc tcgtcgctgt cctcccgacg 60
cggacccggt gccccaggct cgcgctgccc ggcagggtgc tcgtgtccca ctcccggcgc 120
acgcctcccg cgagtcctcg gcccctcccg cgccctctt ctcggcgcgc gcgcagatgg 180
gcgccccgc aggtcctcgc gttcgggctt ctgcttgccg cggcgacggc gacttttgcc 240
gcagctcagg aagaatgtgt ctgtgaaaac tacaagctgg ccgtaaaactg ctttgtgaat 300
aataatcgtc aatgccagtg tacttcagtt ggtgcacaaa atactgtcat ttgctcaaag 360
ctggctgcc aatgtttggt gatgaaggca gaaatgaatg gctcaaaact tgggagaaga 420
gcacaaactg aaggggccc ccagaacaat gatgggctt atgatcctga ctgcgatgag 480
agcgggctct ttaaggccaa gcagtgcac ggcacctcca tgtgctgggtg tgtgaacact 540
gctggggtca gaagaacaga caaggacact gaaataacct gctctgagcg agtgagaacc 600
tactggatca tcattgaact aaaacacaaa gcaagagaaa aaccttatga tagtaaaagt 660
ttgcggactg cacttcagaa ggagatcaca acgcgttatc aactggatcc aaaatttatc 720
acgagtattt tgtatgagaa taatgtttatc actattgatc tggttcaaaa ttcttctcaa 780
aaaactcaga atgatgtgga catagctgat gtggcttatt attttgaaaa agatgttaaa 840
ggtgaatcct tgtttcattc taagaaaatg gacctgacag taaatgggga acaactggat 900
ctggatcctg gtcaaaactt aattttattat gttgatgaaa aagcacctga attctcaatg 960
cagggctctaa aagctggtgt tattgctgtt attgtggttg tggatgtagc agttgttgct1020
ggaattgttg tgctggttat ttccagaaaag aagagaatgg caaagtatga gaaggctgag1080
ataaaggaga tgggtgagat gcatagggaa ctcaatgcat aactatataa tttgaagatt1140
atagaagaag ggaaatagca aatggacaca aattacaaat gtgtgtgcgt gggacgaagal1200
catctttgaa ggtcatgagt ttgttagttt aacatcatat atttgtaata gtgaaacctg1260
tactcaaaat ataagcagct tgaaaactggc tttaccaatc ttgaaatttg accacaagtg1320
tcttatatat gcagatctaa tgtaaaatcc agaacttgga ctccatcggt aaaattat1380
atgtgtaaca ttcaaagtgt tgcattaaat atgcttccac agtaaaatct gaaaaactga1440
tttgtgattg aaagctgcct ttctattttac ttgagctctg tacatacata cttttttatg1500
agctatgaaa taaaacattt taaactgaaa aaaaaaaaaa aaggc                                     1545

```

<210> 95  
 <211> 1133  
 <212> DNA  
 <213> Homo sapiens

<400> 95

```

gcgcgggtatt atcgggtaga catctgcac cgcgtctcgg aaaccggtag cgcttgacgc 60
atggctgacc aactgactga agagcagatt gcagaattca aagaagcttt ttcactattt 120
gacaaagatg gtgatggaac tataacaaca aaggaattgg gaactgtaat gagatctctt 180
gggcagaatc ccacagaagc agagttacag gacatgatta atgaagtaga tgctgatggg 240
aatggcacia ttgaacttcc ctgaatttct ggacaaggat ggcaagaaaa atgaaagaca 300
cagacagtga agaagaaatg agagaagcat tccgtgtggt tgataaggat ggcaaggggc 360
atatgagtgc tgcagaactt cgccatgtga tgacaaacct tggagagaag ttaacagatg 420
aagaagttaga tgaaatgatc agggaaagcag atattgatgg tgatgggtcaa gtaaaactatg 480
aagagtttgg tgaatgatg acagcaaatg gaagaccttg tacagaatgt gttaaatttc 540
ttgtacaaaa ttgtttattt gccttttctt tgtttgtaac ttatctgtaa aagggttctc 600
cctactgtca aaaaaatatg catgtatagt aattaggact tcattcctcc atgttttctt 660
cccttatctt actgtcattg tcctaaaacc ttattttaga aaagttgatc aaggtaacat 720
gttgcatgtg gcttactctg gggaaaatct taagcccttc tgcacatcta aacttagatg 780
gagttggtca aatgagggaa catctgggtt atgccttttt taaagtagtt ttcttttagg 840
actgtcagca tgttgttgtt gaagtgtgga gttgtaactc tgcgtggact atggacagtc 900

```

aacaatatgt acttaaaagt tgcactattg caaaacgggt gtattatcca ggtactcgta 960  
 cactatTTTT ttgtactgct ggtcctgtac cagaaacatt ttcttttatt gttacttgct1020  
 ttttaaactt ggtttagcca cttaaaatct gcttatggca caatttgccc caaaatccat1080  
 tccaagttgt atatttgttt tccaataaaa aaattacaat ttacccaaaa aaa 1133

<210> 96

<211> 791

<212> DNA

<213> Homo sapiens

<400> 96

gccgcccgcg cggacccggc gagaggcggc ggcgggagcg gcggtgatgg acgggtccgg 60  
 ggagcagccc agaggcggg ggcccaccag ctctgagcag atcatgaaga caggggccct120  
 ttgcttcag ggtttcatcc aggatcgagc agggcgatg gggggggagg cacccgagct180  
 ggccctggac ccggtgcctc aggatgcgtc caccaagaag ctgagcgagt gtctcaagcg240  
 catcggggac gaactggaca gtaacatgga gctgcagagg atgattgccg ccgtggacac300  
 agactccccc cgagaggtct ttttccgagt ggcagctgac atgttttctg acggcaactt360  
 caactggggc cgggttgctg ccttttctc ctttgccagc aaactgggtg tcaaggccct420  
 gtgcaccaag gtgccggaac tgatcagaac catcatgggc tggacattgg acttctccg480  
 ggagcggctg ttgggctgga tccaagacca ggggtggttg gacggcctcc tctcctactt540  
 tgggacgccc acgtggcaga ccgtgacat ctttggtggc ggagtgtctc ccgcctcact600  
 caccatctgg aagaagatgg gctgaggccc ccagctgcct tggactgtgt ttttcttact720  
 taaattatgg catttttctg ggaggggtgg ggattggggg acatgggcat ttttcttact720  
 tttgtaatta ttgggggggtg tggggaagag tggctctgag ggggtaataa acctccttcg780  
 ggacacaaaa a 791

<210> 97

<211> 599

<212> DNA

<213> Homo sapiens

<400> 97

tcctgccttc accatgaagt ccagcggcct cttcccttc ctggtgetgc ttgccctggg 60  
 aactctggca ccttgggctg tggaaaggctc tggaaagtcc ttcaaagctg gagtctgtcc120  
 tcctaagaaa tctgcccagt gccttagata caagaaacct gactgccaga gtgactggca180  
 gtgtccaggg aagaagagat gttgtcctga cacttgtggc atcaaagtcc tggatcctgt240  
 tgacacccca aacccaacaa ggaggaagcc tgggaagtgc ccagtgactt atggccaatg300  
 tttgatgctt aaccccccca atttctgtga gatggatggc cagtgcaggc gtgacttgaa360  
 gtgttgcatg ggcattgtgtg ggaaatcctg cgtttccct gtgaaagctt gattcctgcc420  
 atatggagga ggctctgtgt tcctgtctctg tgtggtccag gtcctttcca ccctgagact480  
 tggctccacc actgatatcc tcctttgggg aaaggcttgg cacacagcag gctttcaaga540  
 agtgccagtt gatcaatgaa taaataaacg agcctatttc tctttgcaaa aaaaaaaaa 599

<210> 98

<211> 643

<212> DNA

<213> Homo sapiens

<400> 98

gggcccgcg ctcgggcgta ggaggcgggt cctctgcagc aagcgtgggg cgcggggaacc 60  
 cgagcaggac tctccagtc tcagtcacct tggacaaaga agtgtggatc ctgagattcc120  
 atcttttcca actccaaggt gccatggcag agaagggtgct ggtaacaggt ggggctggct180  
 acattggcag ccacacgggt ctggagctgc tggaggctgg ctacttgctt gtggtcatcg240  
 ataacttcca taatgccttc cgtggagggg gctccctgcc tgagagcctg cggcgggtcc300  
 aggagctgac aggcgctct gtggagtttg aggagatgga cattttggac cagggagccc360  
 tacagcgtct cttcaaaaag tacagcttta tggcggctcat ccactttgct gggctcaagg420  
 ccgtgggcga gtcgggtgcag aagcctctgg attattacag agttaacctg accgggacca480  
 tccagcttct ggagatcatg aaggcccacg gggatgaaga cctgggtgtc agcagctcag540  
 ccactgtgta cgggaacccc cagtacctgc ccccttgaat gagggccacc ccacgggggtg600  
 ggatgtaaca accttacgga agtccaaatt tctttatctt ttc 643

<210> 99  
 <211> 860  
 <212> DNA  
 <213> Homo sapiens

<400> 99

```
ctcgagccgc tcgagccgat tgggctcgag tgcctccaga ggactggcca cattttgcct 60
agataaagat gcacttagag atgaatatga tgatctctca gatttgaatg cagtacaaat120
ggagagtgtt cgagaatggg aaatgcagtt taaagaaaaa tatgattatg taggcagact180
cctaaaacca ggagaagaac catcagaata tacagatgaa gaagatacca aggatcacaa240
taaacaggat tgaactttgt aaacaaccaa agtcaggggc cttcagaact gcaattctta300
ctccctttca cagactgtcc ggagtctttg ggtttgattc acctgctgcg aaaaacattc360
aacaaattgt gtacaagata aattaatctc actatgaaga tttgaataac tagacattat420
ttatgctgcc aaactcattt gttgcagttg tttgtaattg ctagtggggc ttcacatcc480
tgaaaagaag gagacaggga tttttttaa gagcaagaaa gtcacaatat tacttctttc540
cttccttttt tcttcttttc ctttcttctt tctctttctt tctttttaa atatattgaa600
gacaaccaga tatgtatttg ctactcaagt gtacagatct cctcaagaaa catcaaggga660
ctcctgtgtc acatactgtg tttttatttt aacatgggtg agggaggcga cctgatcagg720
ggaggtgggg gtacacatca atttgagttg ttcaggctac tgaaacatta aaatgtgaat780
tcccaaactt ttctttttgg cattgttcgg gggataggga aatatcgttt ttaaaggagt840
cttgggaatt ggggtgtggga                                     860
```

<210> 100  
 <211> 1155  
 <212> DNA  
 <213> Homo sapiens

<400> 100

```
cggggctcgc ccagcctggt ccggggagag gactggctgg gcaggggccc cgccccgcct 60
cgggagaggc gggccgggcg gggctgggag tatttgaggg tggagccac cgccccgcct 120
gcgcccgcag cacctcctcg ccagcagccg tccggagcca gccaacgagc ggaaaatggc 180
agacaatttt tcgctccatg atgcgttatc tgggtctgga aacccaaacc ctcaaggatg 240
gcctggcgca tgggggaacc agcctgctgg ggcagggggc taccaggggg cttcctatcc 300
tggggcctac cccgggcagg cacccccagg ggcttatcct ggacaggcac ctccaggcgc 360
ctaccctgga gcacctggag cttatcccgg agcacctgca cctggagtct acccagggcc 420
acccagcggc cctggggcct acccatcttc tggacagcca agtgccaccg gagcctaccc 480
tgccactggc ccctatggcg cccctgctgg gccactgatt gtgccttata acctgccttt 540
gcctggggga gtgggtgcctc gcctgctgat aacaattctg ggcacgggtg agcccaatgc 600
aaacagaatt gcttttagatt tccaaagagg gaatgatgtt gccttccact ttaaccacag 660
cttcaatgag aacaacagga gagtcatgtt ttgcaataca aagctggata ataactgggg 720
aagggaagaa agacagtcgg ttttccattt tgaaagtggg aaaccattca aaatacaagt 780
actggttgaa cctgaccact tcaaggttgc agtgaatgat gctcacttgt tgcagtacaa 840
tcacggggtt aaaaaactca atgaaatcag caaactggga atttctgggt acatagacct 900
caccagtgtc tcatatacca tgatataatc tgaaaggggc agattaaaaa aaaaaaaaga 960
atctaaacct tacatgtgta aaggtttcat gttcactgtg agtgaaaaat ttacattca1020
tcaatatccc tcttgaagt catctactta ataaatatta cagtgaaaaa aaaaaaaaaa1080
aaaaaaaaaa gtcgaaaaag gagggggaag gagagagagg gaagaagaga gaggagaagg1140
aggggggggg tgggt                                     1155
```

<210> 101  
 <211> 522  
 <212> DNA  
 <213> Homo sapiens

<400> 101

```
aaaaatattt gctggaaatt gctgtgtagg attacaggcg tgaccactgc gcccggccac 60
attcagttct tatcaaagaa ataaccaga cttaatcttg aatgatacga ttatgcccac120
tattaagtaa aaaatataag aaaaggttat cttaaataga tcttaggcaa aataccagct180
gatgaaggca tctgatgcct tcactgttcc agtcatctcc aaaaacagta aaaataacca240
```

```

ctttttgttg ggcaatatga aattttttaa ggagtagaat accaaatgat agaaacagac300
tgcctgaatt gagaattttg atttctttaa gtgtgtttct ttctaaattg ctgttcctta360
atgtgattaa tttaattcat gtattatgat taaatctgag gcagatgagc ttacaagtat420
tgaaataatt actaattaat cacaaatgtg aagttatgca tgatgtaaaa aatacaaaaca480
ttctaattaa aggcctttgca acacaaaaaa aagaaaaaaa aa 522

```

<210> 102  
 <211> 1628  
 <212> DNA  
 <213> Homo sapiens

<400> 102

```

ccagctcgcc ctgcctagcc aggggcgccc cgccccctgc ctgcccggcc accttcggga 60
gccgcttcca ataggcgttc gccattggct ctggcgacct ccgcgcttg ggaggtgtag 120
cgcggtctct aacgcgctga gggccgttga gtgtcgcagg cggcgagggc gcgagtgagg 180
agcagaccca ggcacgcgcg gccgagaagg ccggcgctcc ccacactgaa ggtccgga 240
ggcgacttcc gggggctttg gcacctggcg gacctcccgc gagcgtcggc acctgaacgc 300
gaggcgctcc attgcgcgtg cgcgttgagg ggcttcccgc acctgatcgc gagaccccaa 360
cggctgggtg cgtgcctgc gcgtctcggc tgagctggcc atggcgagc gtgagggtg 420
aggcgagcgg ggcgtttctc gccctgctgg gatcgctgct cctctctggg gtccctggcg 480
ccgaccgaga acgcagcatc cagcacttct gcctgggtgc gaaggtgggt ggcagatgcc 540
gggcctccat gcctaggtgg tgggtacaat tcaactgacg atcctgccag ctgtttgtgt 600
atgggggctg tgacggaaac agcaataatt acctgaccaa ggaggagtgc ctcaagaaat 660
gtgccactgt cacagagaat gccacgggtg acctggccac cagcaggaaat gcagcgatt 720
cctctgtccc aagtgtctcc agaaggcagg attctgaaga ccactccagc gatatgttca 780
actatgaaga atactgcacc gccaacgcag tcaactggcc ttgccgtgca tccttcccac 840
gctggtaact tgacgtggag aggaactcct gcaataaact catctatgga ggctgccggg 900
gcaataagaa cagctaccgc tctgaggagg cctgcatgct ccgctgcttc cgccagcagg 960
agaatcctcc cctgccccct ggctcaaagg tgggtggttct ggcggggctg ttcgtgatgg 1020
tggtgatect ctctctggga gcctccatgg tctacctgat ccgggtggca cggaggaacc 1080
aggagcgtgc cctgcgaccc gtctggagct ccggagatga caaggagcag ctggtgaaga 1140
acacatatgt cctgtgaccg ccctgtcgcc aagaggactg ggggaaggag gggagactat 1200
gtgtgagctt tttttaaata gagggattga ctcggtttg agtgatcatt agggctgagg 1260
tctgtttctc tgggaggtag gacggctgct tcttggctc gcagggatgg gtttgccttg 1320
gaaatcctct agggagctcc tcttcgcat gcctgcagtc tggcagcagc cccgagttgt 1380
ttcctcgctg atcgatttct ttctccagg tagagtttct tttgcttatg ttgaattcca 1440
ttgcctcttt tctcatcaca gaagtgatgt tggaaatcgt tcttttgttt ctgtgattta 1500
tggttttttt aagtataaac aaaagttttt tattagcatt ctgaaagaag gaaagtaaaa 1560
tgtacaagtt taataaaaag gggccttccc cttagaata aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaa 1628

```

<210> 103  
 <211> 605  
 <212> DNA  
 <213> Homo sapiens

<400> 103

```

cctggcagct gtcggctgga aggaactggt ctgctcacac ttgctggctt gcgcatcagg 60
actggcttta tctcctgact cagggtgcaa aggtgcactc tgcaacggtt aagtcctgcc 120
ccagcgcttg gaatectacg gccccacag ccggatcccc tcagccttcc aggtcctcaa 180
ctcccgcgga cgctgaacaa tggcctccat ggggctacag gtaatgggca tcgcgctggc 240
cgtccctggc tggctggccg tcatgctgtg ctgcgcgctg cccatgtggc gcgtgacggc 300
cttcatcgcc agcaacattg tcacctcgca gacctctgg gagggcctat ggatgaactg 360
cgtgggtgcag agcaccggcc agatgcagtg caagggtgtac gactcgtgct tggcactgcc 420
gcaggacctg caggcgggcc gcgccctcgt catcatcagc atcatcgtg ctgctctggg 480
cgtgctgctg tccgtgggtg ggggcgaagt gtaacaaact tgccctggag attaaaagcg 540
ccaagggcaa gaacatgatt cgttggcggg cgtgggtgtt tctgtttggg ccggcctaata 600
gggtg 605

```

<210> 104  
 <400> 104



000

<210> 105  
 <211> 2731  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 105

```

agggggggcg acagacacag actatgcaga tgggagtgaa gacaaagtag tagaagtagc 60
agaggaggaa gaagtggctg aggtggagga cgatgaggat ggtgatgagg tagaggaaga 120
ggctgaggaa ccctacgaag aagccacaga gagacacaga gtctgtggaa gaggtggttc 180
gagaggtgtg ctctgaacaa gccgagacgg ggccgtgccg agcaatgatc tcccgtggtt 240
actttgatgt gactgaaggg aagtgtgccc cattctttta cggcggatgt ggcggaacc 300
ggaacaactt tgacacagaa gagtactgca tggccgtgtg tggcagcgcc attcctacaa 360
cagcagccag tacccttgat gccgttgaca agtatctcga gacacctggg gatgagaatg 420
aacatgcccc tttccagaaa gccaaagaga ggcttgaggc caagcaccga gagagaatgt 480
cccaggatcat gagagaatgg gaagaggcag aacgtcaagc aaagaacttg cctaaagctg 540
ataagaaggc agttatccag catttccagg agaaagtggg atctttggaa caggaagcag 600
ccaacgagag acagcagctg gtggagacac acatggccag agtggaagcc atgctcaatg 660
accgccgcgg cctggccctg gagaactaca tcaccgctct gcaggctgtt cctcctcggc 720
ctcgtcacgt gttcaatatg ctaaagaagt atgtccgcgc agaacagaag gacagacagc 780
acaccctaaa gcatttcgag catgtgcgca tgggtggatcc caagaaagcc gctcagatcc 840
gggtcccagg tatgacacac ctccgtgtga tttatgagcg catgaatcag tctctctccc 900
tgctctacaa cgtgcctgca gtggccgagg agattcagga tgaagtgtat gagctgcttc 960
agaaagagca aaactattca gatgacgtct tggccaacat gattagttaa ccaaggatca 1020
gttacggaaa cgatgctctc atgccatctt tgaccgaaac gaaaaccacc gtggagctcc 1080
ttcccgtaga tggagagttc agcctggacg atctccagcc gtggcattct tttgggctg 1140
actctgtgcc agccaacaca gaaaacgaag ccaggttctg ggttgacaaa tatcaagacg gaggagatct 1260
accgaggact gacctctga gatggatgca gaattccgac atgactcagg atatgaagtt catcatcaaa 1320
ctgaagttaa gatggatgca gatgtgggtt caaacaaagg tgcaatcatt ggactcatgg 1380
aattggtgtt ctttgcagaa gatgtgggtt tcatcacctt ggtgatgctg aagaagaaac 1440
tggtgggtgt tgtcatagcg acagtgtatg aggttgacgc cgctgtcacc ccagaggagc 1500
agtacacatc cattcatcat ggtgtggtgg aggttgacgc aacctacaag tctttgagc 1560
gccacctgtc caagatgcag cagaacggct acgaaaatcc tggacagcaa aaccattgct 1620
agatgcagaa ctgagcccc gccacagcag cctctgaagt gaaacaaacc cgttttatga 1680
tcactacca tcggtgtcca tttatagaat aatgtgggaa gaaacaaacc cgttttatga 1740
tttactcatt atcgctttt gacagctgtg ctgtaacaca agtagatgcc tgaacttgaa 1800
ttaatccaca catcagtaat gtattctatc tctctttaca ttttgggtct tatactacat 1860
tattaatggg ttttgtgtac tgtaaagaat ttagctgtat caaactagtg catgaataga 1920
ttctctcctg attattttat acatagcccc ttagccagtt gtatattatt cttgtggttt 1980
gtgacccaat taagtcttac tttacatatg ctttaagaat cgatggggga tgcttcattg 2040
gaacgtggga gttcagctgc ttctcttgcc taagtattcc tttcctgatc actatgcatt 2100
ttaaagttaa acatttttaa gtatttcaga tgcttttagag agattttttt tccatgactg 2160
cattttactg tacagattgc tgcttctgct atatttgtga tataggaatt aagaggatac 2220
acacgtttgt ttcttctgct ctgttttatg tgcacacatt aggcattgag acttcaagct 2280
tttctttttt tgtccacgta tctttgggtc tttgataaag aaaagaatcc ctgttcattg 2340
taagcacttt tacggggcgg gtggggaggg gtgctctgct ggtcttcaat taccagaat 2400
tctccaaaac aattttctgc aggatgattg tacagaatca ttgcttatga catgatcgct 2460
ttctacactg tattacataa ataaattaaa taaaataacc ccgggcaaga cttttctttg 2520
aaggatgact acagacatta aataatcgaa gtaattttgg gtggggagaa gaggcagatt 2580
caattttctt taaccagtct gaagtttcat ttatgatata aaagaagatg aaaatggaag 2640
tggaatatata aggggatgag gaaggcatgc ctggacaaac ctttctttta agatgtgtct 2700
tcaatttgta taaaatggtg ttttcatgta aataaatata ttcttggagg agccaaaaaa 2731
aactatatta ctggcaggtt tataatatgg c

```

<210> 106  
 <211> 2194  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 106

```

gaattcagaa gttaaatgatg ttgggtaaga gaacaatggt aagagagcaa tctaagaata 60
tatcacctac tttaatttta tatgagagta catggaggta gctgtgatgt ggaaatgtag 120
cactgctcct acccacgcag atttattcca gtgaaacaac aactggaact tcaagtaact 180
cctcccagag tacttccaac tctgggttgg ccccaaatcc aactaatgcc accaccaagg 240
cggctggtgg tgccctgcag tcaacagcca gtctcttcgt ggtctcactc tctcttctgc 300
atctctactc ttaagagact caggccaaga aacgtcttct aaatttcccc atcttctaaa 360
cccaatccaa atggcgtctg gaagtccaat gtggcaagga aaaacagggtc ttcattcgaat 420
ctactaattc cacacctttt attgacacag aaaatgttga gaatcccaaa tttgattgat 480
ttgaagaaca tgtgagaggt ttgactagat gatggatgcc aatattaaat ctgctggagt 540
ttcatgtaca agatgaagga gaggcaacat ccaaaatagt taagacatga tttccttgaa 600
tgtggcttga gaaatatgga cacttaatac taccttgaaa ataagaatag aaataaagga 660
tgggattgtg gaatggagat tcagttttca tttggttcat taattctata aggccataaa 720
acaggtaata taaaaagctt ccatgattct atttatatgt acatgagaag gaacttccag 780
gtgttactgt aattcctcaa cgtattgtt cgacagcact aatttaatgc cgtatatactc 840
tagatgaagt tttacattgt tgagctattg ctgttctctt gggaactgaa ctcactttcc 900
tcctgaggct ttggatttga cattgcattt gaccttttat gtagtaattg acatgtgcca 960
gggcaatgat gaatgagaat ctacccccag atccaagcat cctgagcaac tcttgattat1020
ccatattgag tcaaatggtg ggcatttctt atcacctgtt tccattcaac aagagcacta1080
cattcattta gctaaacgga ttccaaagag tagaattgca ttgaccgca ctaatttcaal140
aatgcttttt attattatta ttttttagac agtctcactt tgtcgcccag gccggagtgc1200
agtgggtgca tctcagatca gtgtaccatt tgccctcccg gctcaagcga ttctcctgcc1260
tcagcctccc aagtagctgg gattacaggc acctgccacc atgcccggct aatttttgta1320
attttagtag agacagggtt tcaccatgtt gccaggctg gtttcgaact cctgacctca1380
gggtgatccac ccgcctcggc ctcccaaagt gctgggatta caggcttgag cccccgcgcc1440
cagccatcaa aatgcttttt atttctgcat atgttgaaata ctttttaciaa tttaaaaaaa1500
tgatctgttt tgaaggcaaa attgcaaatc ttgaaattaa gaaggcaaaa atgtaaaggal560
gtcaaaaacta taaatcaagt atttggaag tgaagactgg aagctaattt gcattaaatt1620
cacaaacttt tatactcttt ctgtatatac attttttttc tttaaaaaac aactatggat1680
cagaatagcc acatttagaa cactttttgt tatcagtcaa tatttttaga tagttagaac1740
ctggctctaa gcctaaaagt gggcttgatt ctgcagtaaa tcttttaciaa ctgcctcgac1800
acacataaac ctttttaaaa atagacactc cccgaagtct tttgttcgca tggtcacaca1860
ctgatgctta gatgttccag taatctaata tggccacagt agtcttgatg accaaagtcc1920
tttttttcca tcttttagaaa actacatggg aacaaacaga tcgaacagtt ttgaagctac1980
tgtgtgtgtg aatgaacact cttgctttat tccagaatgc tgtacatcta tttggattg2040
tatattgtgt ttgtgtattt acgctttgat tcatagtaac ttcttatgga attgatttgc2100
attgaacaca aactgtaaat aaaaagaaat ggctgaaaga gcaaaaaaaaa aggaaagaaa2160
aaagaaaaaa aaaagaaaaa aaaaaggggg aggc 2194

```

<210> 107

<211> 1812

<212> DNA

<213> Homo sapiens

<400> 107

```

cggaagggtg accttggatg aattttgacg agaacaagtt cgtggaccga agaagatggg 60
ggccgcacgc ccaggccccg gccccgacga ggccgaggtg gacacctgcc ccctgcgcaa 120
aggaaacatg aaacagaccc tacaggcagc tctgaagaac cccctatca acaccaagag 180
tcaggcagtg aaggaccggg caggcagcat tgtcttgaag gtgctcatct cttttaaaagc 240
taatgatata gaaaaggcag ttcaatctct ggacaagaat ggtgtggatc tcctaatagaa 300
gtatatattt aaaggatttg agagcccgtc tgacaatagc agtgctatgt tactgcaatg 360
gcatgaaaag gcacttgctg ctggaggagt aggggtccatt gttcgtgtct tgactgcaag 420
aaaaactgtg tagtctggca ggaagtggat tatctgcctc gggagtggga attgctggta 480
caaagaccaa aacaaccaa tgccaccgct gccctgtggg tagcatctgt tctctcagc 540
tttgctttct tgctttttca tatctgtaaa gaaaaaaatt acatatcagt tgtccttttaa 600
tgaaaatttg gataaatagg aagaaattgt gttaaaatag aagtgtttca tcttttcaaa 660
accatttcag tgatgtttat accaatctgt atatatgata atttacattc aagtttaatt 720
gtgcaacttt taaccctctg ttgctgggtt tttgttctgt tttgttttgt attattttta 780
actaatactg agagatttgg tcagaatttg aggccagttt cctagctcat tgctagtcag 840
gaaatgatat ttataaaaaa tatgagagac tggcagctat taacattgca aaactggacc 900
atatttccct tatttaataa gcaaaaatag tttttggaat aagtgggtgg tgaataccac 960
tgccaagtta tagctttgtt tttgcttgcc tcttgattat ctgtactgtg ggtttaagta1020
tgctactttc tctcagcatc caataatcat ggcccccaa tttatttgtg gtcaccagg1080

```

```

gttcagagca agaagtcttg ctttatacaa atgtatccat aaaatatcag agcttgttgg1140
gcatgaacat caaacttttg ttccactaat atggctctgt ttggaaaaaa ctgcaaata1200
gaaagaatga tttgcagaaa gaaagaaaaa ctatgggtga atttaaactc tgggcagcct1260
ctgaatgaaa tgctactttc tttagaaata taatagctgc cttagacatt atgaggtata1320
caactagtat ttaagatacc atttaatatg ccccgtaaat gtcttcagtg ttcttcagg1380
tagttgggat ctcaaaagat ttggttcaga tccaaacaaa tacacattct gtgttttagc1440
tcagtgtttt ctaaaaaaag aaactgccac acagcaaaaa attgtttact ttgttggaca1500
aaccaaatca gttctcaaaa aatgaccggt gcttataaaa agttataaat atcgagtagc1560
tctaaaacaa accacctgac caagagggaa gtgagcttgt gcttagtatt tacattggat1620
gccagttttg taatcactga cttatgtgca aactgggtgca gaaattctat aaactctttg1680
ctgtttttga tacctgcttt ttgtttcatt ttgttttggt ttgtaaaaat gataaaactt1740
cagaaaataa aatgtcagtg ttgaataaaa taaaaaaaca aattgaagaa gaggatggag1800
atttcgactt gg                                     1812

```

<210> 108  
 <211> 890  
 <212> DNA  
 <213> Homo sapiens

<400> 108

```

aacgactcct ggtacettgc tcccattact tcccgttttc tcgatctgct gctcgtctca 60
ggctcgtagt tcgctttcaa catgccggaa ccagcgaagt ccgctcccgc gcccaagaag120
ggctcgaaga aagccgtgac taaggcgagc aagaaggagc gcaagaagcg caaggcagcc180
gcaaggagag ctactccgta tacgtgtaca aggtgctgaa gcaggtccac cccgacaccg240
gcatctcctc taaggccatg ggaatcatga actccttcgt caacgacatc ttcgaaacgca300
tcgcggtgta ggcttcccgc ctggcgcatc acaacaagcg ctcgaccatc acctccagg360
agatccagac ggccgtgcgc ctgctgctgc ccggggagtt ggccaagcac gccgtgtccg420
agggcaccaa ggccgtcacc aagtacacca gcgctaagta aacttgccaa ggagggactt480
tctctggaat ttcttgatat gaccaagaaa gcttcttctc aaaagaagca caattgcctt540
cggttacctc attatctact gcagaaaaga agacgagaat gcaaccatac ctgatggac600
ttttccacaa gctaaagctg gcctcttgat ctcatcaga ttccaaagag aatcatttac660
aagttaattt ctgtctcctt ggtccattcc ttctctctaa taatcattta ctgttcctca720
aagaattgtc tacattaccc atctcctctt ttgcctctga gaaagagtat ataagcttct780
gtacccactc ggggggttgg ggtaatatc tgtggtcctc agccctgtac cttaataaat840
ttgtatgcct tttctcttaa aaaaaaaaaa aagaagaagg aagaggatgc                                     890

```

<210> 109  
 <400> 109  
 000

<210> 110  
 <211> 2627  
 <212> DNA  
 <213> Homo sapiens

<400> 110

```

ggcacgagat gtgaaaaggt tttgtgtaca ccacctcaa aaataaaaaa tggaaaacac 60
accttttagtg aagtagaagt atttgagtat cttgatgcag taacttatag ttgtgatcct 120
gcacctggac cagatccatt ttcacttatt ggagagagca cgattttatt tgggtgacaat 180
tcagtgtgga gtcgtgctgc tccagagtgt aaagtgggtca aatgtcgatt tccagtagtc 240
gaaaatggaa aacagatatac aggatattgga aaaaaatttt actacaaagc aacagttatg 300
tttgaatgag ataaggggtt ttacctcgat ggcagcgaca caattgtctg tgacagtaac 360
agtacttggg atccccagtg tccaaagtgt cttaaagtgt cgacttcttc cactacaaaa 420
tctccagcgt ccagtgcctc aggtcctagg cctacttaca agcctccagt ctcaaattat 480
ccaggatata ctaaacctga ggaaggaata cttgacagtt tggatgtttg ggtcattgct 540
gtgattgtta ttgccatagt tgttggagtt gcagtaattt gtgttgtccc gtacagatat 600
cttcaaagga ggaagaagaa agggaaagca gatgggtggag ctgaatatgc cacttaccag 660
actaaatcaa ccactccagc agagcagaga ggctgaatag attccacaac ctggtttgcc 720
agttcatcct ttgactctat taaaatcttc aatagttggt attctgtagt ttcactctca 780
tgagtgaac tgtggcttag ctaatatgac aatgtggctt gaatgtaggt agcatccttt 840
gatgcttctt tgaaacttgt atgaatttgg gtatgaacag attgcctgct ttcccttaaa 900

```

```

taacacttag atttattgga ccagtcagca cagcatgcct gggtgtatta aagcagggat 960
atgctgtatt ttataaaatt ggcaaaatta gagaaatata gttcacaaatg aaatttatatt1020
ttctttgtaa agaaagtggc ttgaaatcct ttttgttcaa agattaatgc caactcttaa1080
gattattcct tcaccaacta tagaatgtat tttatatatc gttcattgta aaaagccctt1140
aaaaatatgt gtatactact ttggctcctg tgcataaaaa caagaacact gaaaattggg1200
aatatgcaca aacttggcct cttaaacc aaatattatt ggaaaattct ctaaaagtta1260
atagggtaaa ttctctatct tttgtaattg gttcgggtgat ttcagaaagc tagaaagtgt1320
atgtgtggca tttgttttca ctttttaaaa catccctaac tgatcgaata tatcagtaat1380
ttcagaatca gatgcacct ttcataagaa gtgagaggac tctgacagcc ataacaggag1440
tgccacttca tgggtgcgaag tgaacactgt agtcttgttg tttcccaaaa gagaactccg1500
tatgttctct taggttgagt aaccactct gaattctggg tacatgtgtt tttctctccc1560
tccttaataa aagagagggg ttaaacatgc cctctaaaag taggtgggtt tgaagagaat1620
aaattcatca gataacctca agtcacatga gaattctagt ccatttacat tgccttggct1680
agtaaaagcc ctctctatct atgtcttacc tcatctccta aaaggcagag tacaagttaa1740
gcatgtatc tcaggaaggt aacttcattt tgtctatttg ctgttgattg taccaaggga1800
tggaagaagt aaatatagct caggtagcac tttatactca ggcagatctc agccctctac1860
tgagtccctt agccaagcag tttctttcaa agaagccagc aggcgaaaag cagggactgc1920
cactgcattt catatcacac tgtaaaaagt tgtgttttga aattttatgt ttagttgcac1980
aaattggggc aaagaaacat tgccttgagg aagatatgat tggaaaatca agagtgtaga2040
agaataaata ctgttttact gtccaaagac atgtttatag tgctctgtaa atgttctttt2100
cctttgtagt ctctggcaag atgttttagg aagataaaaag tttgaggaga acaaacagga2160
attctgaatt aagcacagag ttgaagttaa taccggtttc acatgctttt caagaatgtc2220
gcaattacta agaagcagat aatgggtgtt ttagaaaacc taattgaagt atattcaacc2280
aaatacttta atgtataaaa taaatattat acaatatact tgtatagcag tttctgcttc2340
acatttgatt ttttcaaatt taatatttat attagagatc tatatatgta taaatatgta2400
ttttgtcaaa tttgttactt aaatatatag agaccagttt tctctggaag ttgttttaaa2460
tgacagaagc gtatatgaat tcaagaaaaa ttaagctgca aaaatgtatt tgctataaaa2520
tgagaagtct cactgataga gggtctttat tgctcatttt ttaaaaaaat gactcttgaa2580
atctgttaaa ataaaattgt acatttggaa aaaaaaaaaa gccaaaaa 2627

```

<210> 111  
 <211> 976  
 <212> DNA  
 <213> Homo sapiens

<400> 111

```

ctcgagccgc gagattcccc cgaagttctc catgaagcgc ctcaccgccc gcctcatcgc 60
cgtcatcgtg gtggctcgtg tgcccctcgt cgccggcatg gccgtcctgg tgatcaccaa120
ccggagaaaag tcggggaagt acaagaaggt ggagatcaag gaactggggg agttgagaaa180
ggaaccgagc ttgtaggtac ccggcggggc aggggatggg gtgggggtacc ggatttcggg240
atcgtcccag acccaagtga gtcacgcttc ctgattcctc ggcgcaaagg agacgtttat300
cctttcaaatt tctgccttc cccctccctt ttgcgcacac accaggttta atagatcctg360
gcctcagggg ctcccttctt tctcacttct gtcttgaagg aagcatttct aaaatgtatc420
ccctttcggg ccaacaacag gaaacctgac tggggcagtg aaggaaagga tggcatagcg480
ttatgtgtaa aaaacaagta tctgtatgac aaccgggat cgtttgcaag taactgaatc540
cattgcgaca ttgtgaaggc ttaaattgag ttagatggga aatagcgttg ttatcgccct600
gggtttaaat tatttgatga gttccacttg tatcatggcc taccgagga gaagaggagt660
ttgttaactg ggcctatgta gtacccctcat ttaccatcgt ttgtattact gaccacatat720
gcttgtcact gggaaagaag cctgtttcag ctgcctgaac gcagtttgga tgtctttgag780
gacagacatt gcccggaac tcagtctatt tattcttcag cttgccccta ctgccactga840
tatttgtaat gttctttttt gtaaaatgtt tgtacatatg ttgtctttga taatgttgct900
gtaatttttt aaaaataaac acgaatttaa taaaatatgg gaaaggcaca caaaaaaaaaa960
aaaaaaaaaa aaaaac

```

<210> 112  
 <211> 1427  
 <212> DNA  
 <213> Homo sapiens

<400> 112

```

cttccggggg gactgcctct tccagggcgg gcgggtgtgg gcacgcattg ctgtgctcca 60

```

```

actccctcag ggccctgtgtt gccgcactct gctgctatga gcttcctcaa aagtttcccg 120
ccgcctgggc cagcggaggg gctcctgcgg cagcagccag acactgaggg tgtgtgaac 180
gggaagggcc tcggcactgg taccctttac atcgctgaga gccgcctgtc ttggttagat 240
ggctctggat taggattctc actggaatac cccaccatta gtttacatgc attatccagg 300
gaccgaagtg actgtctagg agagcatttg tatgttatgg tgaatgccaa atttgaagaa 360
gaatcaaaaag aacctgttgc tgatgaagaa gaggaagaca gtgatgatga tgttgaacct 420
attactgaat ttagatttgg gcctagtgat aaatcagcgt tggaggcaat gttcactgca 480
atgtgcgaat gccaggcctt gcatccagat cctgaggatg aggattcaga tgactacgat 540
ggagaagaat atgatgtgga agcacatgaa caaggacagg gggacatccc tacattttac 600
acctatgaag aaggattatc ccatctaaca gcagaaggcc aagccacact ggagagatta 660
gaaggaatgc tttctcagtc tgtgagcagc cagtataata tggctggggg caggacagaa 720
gattcaataa gagattatga agatgggatg gaggtggata ccacaccaac agttgctgga 780
cagtttgagg atgcagatgt tgatcactga aaatgattta tgcaagttaa agattctgct 840
cctaagtgtg ggagagaact tgggtgcctc tccactctgg agtgaagtta atgaaagtct 900
ttttcctttt ccaaaaccca acctgaacca gttctttctt gagacagact atactgagac 960
aacaagtgtt caccagcaga agatagataa tatgaccttt attaacttga tgaattaact 1020
taaccaagag ggtatttgtg gtttactatt taccctaaaa ctttctgtgt ctgggtacct 1080
tctgagtagg cctataattc ctaccttgac tgtgtgcatc atttgtaagc tagcagatct 1140
atgtggtgaa aatgcacagg agcttggtag actgcggggg aaagagagag ctcttttcgc 1200
catgttttac cagtctgctg ttataacctc ttäggttgta tcctttaatt tccagccttt 1260
taggttagtt tctgtaacag aacaagttag tctgggatga agtctcaaa gtactcaaa 1320
tggtaattgt tttgtttttg taatagctta acaataaac ctagggtttc tatattaaaa 1380
aaaaaaaaa aaaaaaaga aaggtacctg ccctaataat attctgc 1427

```

<210> 113

<211> 2639

<212> DNA

<213> Homo sapiens

<400> 113

```

tccctatctt acccttcccg attctccttt tttcttttct ttttttatat ggctttcttc 60
ttttctttct ttcttttttc ttcccccttt tatttgacca gtgtaataa caaacattta 120
ttggtgtcac ttatggtaga aaaaacttcc tacaccagat gcacatgacc cagttgttaa 180
atagaacatt ttgaaggtag acacacaccc taaccagggt tttttaccgg ctttttaaga 240
tggccaattc ttcttctccc ccccacccaa agacatgtga gcaactgcta atgaaaagca 300
gtaaacagcc gcttaggcta tagcagtttc aactccactc tgagggtgaag attccaatta 360
cattcgagac ttaagttctt tcaatttttt cctaacaaaa gttcctgagt ccagtattta 420
caatattaca gcactagcag atcagtgctc acaactcatc tttttctgct gtatcctctt 480
caccagttgg gggagggcct gcacttccat agagtttgct gataattggt tgaacaattt 540
cttccagttc cttcttctta gctttgaagt cttcaatgtc agcatcttgg tggctttcca 600
gccattcaat cttttcttct acagcttttt ccatggcttc cttatcttca gaggaaagt 660
tacctccag cttttcttta tctccaatct gattctttag agaataggca tagctttcca 720
actcatttct agtatcaatg cgctccttga gctttttgtc ttctcagca aacttctcag 780
catcattaac catcctttcg atttcttcag gtgtcaggcg attctgggtc ttggtgattg 840
tgatcttatt tttgttccct gtacccttgt cttcagctgt cactcgaaga ataccattca 900
catctatctc aaaggtgact tcaatctgtg ggaccccacg aggagcagga ggaattccag 960
tcagatcaaa tgtaccaga agatgattgt cttttgtcag gggcttttca cttcataga 1020
ccttgattgt aacagttggg tgattatcag aagctgtaga aaagatctga gacttcttgg 1080
taggcaccac tgtgttctt ggaatcagtt tgggtcatgac acctcccaca gtttcaatac 1140
caagtgtgaa gggacataca tcaagcagta ccaggtcacc tgtatcttga tcaccagaga 1200
gcacaccagc ctggacagca gcaccatacg ctacagcttc atctgggttt atgccaagg 1260
atggttcctt gccattgaag aactctttaa ccagttgctg aatctttgga attcgagtcg 1320
agccaccaac aagaacaatt tcatcaatat cagacttctt caaatcagaa tcttccaaca 1380
ctttctggac gggcttcata gtagaccgga acagatccat gttgagctct tcaaatttgg 1440
cccagtcag ggtctcagaa aagtcttctc cttcatagaa ggactcaatt tcaattcttg 1500
cttgatgctg agaagacagg gccggtttgg cctttttctc ctgcgcggg agtttctgca 1560
cagctctatt gtctttctcg acatctttgc ccgtcttctt tttgtacagt ttgatgaagt 1620
gttccatgac acgttggtca aagtcttctc caccagatg agtatctcca ttagtggcca 1680
caacttcgaa gacaccattg tcaatgggtg gaagagacac atcgaagggt ccgccaccca 1740
ggtcaaacac caggatgttc ttctccccct cctctttatc caggccataa gcaatagcag 1800
ctgccgtagg ctggttgatg atcctcataa catttaggcc agcaatagtt ccagctctt 1860
tggttgcttg gcgttgggca tcattaaaat aggtcgtgtc agtaacaact gcatgggtaa 1920

```

```

ccttctttcc caaataagcc tcagcgggtt ctttcatttt agtgagaacc atggcagaaa1980
tttcttcagg agcaaatgtc tttgtttgcc cacctccaat atcaacttga atgtatgggt2040
tagttttctt ttcaaccacc ttgaacggca agaacttgat gtcctgtctgc acagacgggt2100
cattccacgt gcggccgatg agccgcttgg cgtcaaagac cgtgttctcg gggttggagg2160
tgagctgggt cttggcggga tcgccaatca gacgttcccc ttcaggagtg aaggcgacat2220
aggacggcgt gatgcggttg ccctgatcgt tggcgtatgat ctccacgcgg ccgttcttga2280
acacgccgac gcaggagttag gtggtcccca ggtcgtatgcc gaccaccgtg cccacgtcct2340
ccttcttgtc ctctctctcg gcccgcggcg cgctgagcag cagcagcatc gcggccacca2400
gggagagctt catcttgcca gccagttggg cagcagcagg cagtccagcc acaggccgta2460
gcacaggagc acagcgcaat ttccgacttg caggcggcag gggcccgggg tcacaaggcg2520
ccacgaacca ggcgaaagggc aggtctagaa atacaggccg cggcgcttcc ctctcacact2580
cgcgaaacac cccaataggt caatctgtct gtgctgtctt ggccggcatc gacccttag 2639

```

<210> 114  
 <211> 634  
 <212> DNA  
 <213> Homo sapiens

<400> 114

```

ctccccgcgg cgcggttaaa tccccgcacc tgagcatcgg ctcacacctg cccccgccc 60
gggcatagca ccatgcctgc ttgtgccta ggcccgtag ccgcccct cctcctcagc120
ctgctgtctg tcggttcac cctagtctca ggcacaggag cagagaagac tggcgtgtgc180
cccagctcc aggttgacca gaactgcacg caagagtgcg tctcggacag cgaatgcgcc240
gacaacctca agtctgcag cgcggtgtgt gccaccttct gctctctgcc caatgataag300
gagggttctt gccccagggt gaacattaac ttccccagc tcggcctctg tcgggaccag360
tgccaggtgg acagccagtg tcctggccag atgaaatgct gccgcaatgg ctgtgggaag420
gtgtcctgtg tactcccaa tttctgagct ccagccacca ccaggctgag cagtgaggag480
agaaagtctt tgcctggccc tgcactctgt tccagcccac ctgccctccc ctttttcggg540
actctgtatt cctcttggg ctgaccacag cttctccctt tcccaaccaa taaagtaacc600
actttcagca aaaaaaaaaa aaaaaaaaaa aaaa 634

```

<210> 115  
 <211> 719  
 <212> DNA  
 <213> Homo sapiens

<400> 115

```

gtcgactttt tttttttttt tttaacatgg aaaagtattt ttaaaaatcg aataatccta 60
ttcaagtcaa ccagtgttaa ccccggtgtg ctctctgcca gtctgttctt ccccatggga120
gtcacacaaa atgaaaatct cctagaaaaga gaagacaaag acccgcaaaa gatgtatgcc180
accatctatg agctgaaaga agacaagagc tacaatgtca cctccgtcct gtttaggaaa240
aagaagtgtg actactggat caggactttt gttccagggt gccagcccgg cgagttcacg300
ctgggcaaca ttaagagtta ccctggatta acgagttacc tcgtccgagt ggtgagcacc360
aactacaacc agcatgctat ggtgttcttc aagaaagttt ctcaaaacag ggagtacttc420
aagatcaccc tctacgggag aaccaaggag ctgacttcgg aactaaagga gaacttcac480
cgcttctcca aatctctggg cctccctgaa aaccacatcg tcttccctgt cccaatcgac540
cagtgtatcg acggctgagt gcacagggtg cgccagctgc cgcaccagcc cgaacaccat600
tgagggagct gggagaccct cccacagtg ccacccatgc agctgtccc caggccaccc660
cgctgatgga gccccacctt gtctgctaaa taaacatgtg ccctcaaaaa aaaaaaaaaa 719

```

<210> 116  
 <211> 494  
 <212> DNA  
 <213> Homo sapiens

<400> 116

```

gtcgataacg ccagacgcaa gacgccgggc ctacagcggg agcgtgagga aagccgtgcg 60
ttgcgttcca aggcattctg gagcccgcg agtatacacc atgagcaaaag ctcaccctcc120
cgagttgaaa aaatttatgg acaagaagtt atcattgaaa ttaaattggtg gcagacatgt180
ccaaggaata ttgcggggat ttgatccctt tatgaacctt gtgatagatg aatgtgtgga240

```

```

gatggcgact agtggacaac agaacaatat tggaatgggtg gtaatacgag gaaatagtat300
catcatgtta gaagccttgg aacgagtata aataatggct gttcagcaga gaaacccatg360
tcctctctcc atagggcctg ttttactatg atgtaaaaat taggtcatgt acattttcat420
attagacttt ttgttaaata aacttttgta atagtcaaaa aaaagtttgg tctcatctac480
cttataatat ctgc
494

```

```

<210> 117
<211> 1065
<212> DNA
<213> Homo sapiens

```

```
<400> 117
```

```

acgcggctga ctacgctcaa agctccattg ttagatcctt tctgtcctcc ttctgggctc 60
ctccttcctc cccacccctc taataggctc ataagtgggc tcaggcctct ctgcggggct 120
cactctgcgc ttcacatagg ctttcattgc caagtccttc tatgacctca gtgccatcag 180
cctggatggg gagaaggtag atttcaatac gttccggggc agggccgtgc tgattgagaa 240
tgtggcttcg ctctgaggca caaccacccg ggacttcacc cagctcaacg agctgcaatg 300
ccgctttccc aggcgcctgg tggctccttg cttcccttgc aaccaatttg gacatcagga 360
gaactgtcag aatgaggaga tcctgaacag tctcaagtat gtccgtcctg ggggtggata 420
ccagcccacc ttcacccttg tccaaaaatg tgaggatgaat gggcagaacg agcatcctgt 480
cttcgcctac ctgaaggaca agctccctta cccttatgat gacccatttt ccctcatgac 540
cgatcccaag ctcatcattt ggagccctgt gcgccgtca gatgtggcct ggaactttga 600
gaagtctctc atagggccgg agggagagcc cttccgacgc tacagccgca ccttcccaac 660
catcaacatt gagcctgaca tcaagcgctt ccttaaagtt gccatataga tgtgaactgc 720
tcaacacaca gatctcctac tccatccagt cctgaggagc cttaggatgc agcatgcctt 780
caggagacac tgctggacct cagcattccc ttgatatcag tccccttcac tgcagagcct 840
tgcttttccc ctctgctgtt ttcttttccc tctcccaacc ctctggttgg tgattcaact 900
tgggctccaa gacttgggtg agctctgggc cttcacagaa tgatggcacc ttcctaaacc 960
ctcatgggtg gtgtctgaga ggcgtgaagg gcctggagcc actctgctag aagagaccaal1020
taaagggcag gtgtggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1065

```

```

<210> 118
<400> 118
000

```

```

<210> 119
<400> 119
000

```

```

<210> 120
<211> 648
<212> DNA
<213> Homo sapiens

```

```
<400> 120
```

```

ggactgcggt cgtagtctc cggcgagttg ttgcctgggc tggacgtggg tttgtctgct 60
gcgcccgctc ttgcgctct cgtttcattt tctgcagcgc gccagcagga tggcccaaal120
gcagatctac tactcggaca agtacttcca cgaacactac gaggaccggc atgttatgtt180
acccagagaa ctttccaaac aagtacctaa aactcatctg atgtctgaag aggagtggag240
gagacttggg gtccaacaga gtctaggctg ggttcattac atgattcatg agccagaacc300
acatattctt ctcttttagac gacctcttcc aaaagatcaa caaaaatgaa gtttatctgg360
ggatcgtcaa atctttttca aatttaagt atagtgtat ataaggtagt attcagtgaal420
tacttgagaa atgtacaaat ctttcatcca tacctgtgca tgagctgtat tcttcacagc480
aacagagctc agttaaatgc aactgcaagt aggttactgt aagatgttta agataaaagt540
tcttccagtc agtttttctc ttaagtgcct gtttgagttt actgaaacag tttacttttg600
ttcaataaag tttgtatgtt gcatttaaaa aaaaaaaaaa aaagtcga 648

```

```

<210> 121
<211> 1842
<212> DNA
<213> Homo sapiens

```

&lt;400&gt; 121

```

ctcgagccgc tcgagccgct gctctctgga gggggtagag atcaaaggcg gctccttccg 60
acttctccaa gagggccagg cactggagta cgtgtgtcct tctggcttct acccgtaccc 120
tgtgcagaca cgtacctgca gatctacggg gtcctggagc accctgaaga ctcaagacca 180
aaagactgtc aggaaggcag agtgcagagc aatccactgt ccaagaccac acgacttcga 240
gaacggggaa tactggcccc ggtctcccta ctacaatgtg agtgatgaga tctctttcca 300
ctgctatgac gggttactct tccggggctc tgccaatcgc acctgccaa gtaatggccg 360
gtggagtggg cagacagcga tctgtgacaa cggagcgggg tactgtctca acccgggcat 420
ccccattggc acaagggaagg tgggcagcca gtaccgcctt gaagacagcg tcacctacca 480
ctgcagccgg gggcttacct tgcgtggctc ccagcggcga acgtgtcagg aagggtggctc 540
ttggagcggg acgggagcctt cctgccaaaga ctcttcatg tacgacaccc ctcaagaggt 600
ggccgaagct ttctgtgtct ccctgacaga gaccatagaa ggagtcgatg ctgaggatgg 660
gcacggccca ggggaacaac agaagcggaa gatcgtcctg gaccttcag gctccatgaa 720
catctacctg gtgctagatg gatcagacag cattggggcc agcaacttca caggagccaa 780
aaagtgtcta gtcaacttaa ttgagaaggt ggcaagtatt ggtgtgaagc caagatatgg 840
tctagtgaca tatgccacat accccaaaat ttgggtcaaa gtgtctgaag cagacagcag 900
taatgcagac tgggtcacga agcagctcaa tgaaatcaat tatgaagacc acaagttgaa 960
gtcagggact aacaccaaga aggccttcca ggcagtgtac agcatgatga gctggccaga1020
tgacgtccct cctgaagggt ggaaccgcac ccgccatgtc atcatcctca tgactgatgg1080
attgcacaac atgggcgggg acccaattac tgtcattgat gagatccggg acttgctata1140
cattggcaag gatcgcaaaa acccaaggga ggattatctg gatgtctatg tgtttgggg1200
cgggcctttg gtgaaccaag tgaacatcaa tgctttggct tccaagaaag acaatgagca1260
acatgtgttc aaagtcaagg atatggaaaa cctggaagat gttttctacc aaatgatcga1320
tgaaagccag tctctgagtc tctgtggcat ggtttgggaa cacaggaagg gtaccgatta1380
ccacaagcaa ccatggcagg ccaagatctc agtcattcgc cttcaaagg gacacgagag1440
ctgtatgggg gctgtggtgt ctgagtactt tgtgctgaca gcagcacatt gtttactgt1500
agaagtatgc ctatttcacc ccaactacaa cattaatggg gagaagcggg acctggagat1560
tgaaatttat gactatgacg ttgcctgat caagctcaag aaaaaagaag caggaattcc1620
gactatcagg cccatttgtc tcccctgcac cgaggggaaca aataagctga aatatggcca1680
tccaactacc acttgccagc aacaaaagga agagctgctc actcgagctt tgaggcttcc1740
gctgtgtttg tccgggggga gaaaaaaacc gccccggggg gg          1842

```

&lt;210&gt; 122

&lt;211&gt; 1596

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 122

```

ggcgggtata aaagccccac ccaggccagc cggctctgct cagcatttgg ggacgtcttc 60
agctctcggc gcacggccca gcttccctca aaatgtctac tgttcacgaa atcctgtgca 120
agctcagctt ggagggtgat cactctacac cccaagtgc atatgggtct gtcaaagcct 180
atactaactt tgatgctgag cgggatgctt tgaacattga aacagccatc aagaccaaag 240
gtgtggatga ggtcaccatt gtcaacattt tgaccaaccg cagcaatgca cagagacagg 300
atattgcctt cgctaccag agaaggacca aaaaggaaact tgcacagca ctgaagtcag 360
ccttatcttg ccacctggag acggtgattt tgggcctatt gaagacacct gctcagtatg 420
acgcttctga gctaaaagct tccatgaagg ggtgggaaac cgacgaggac tctctcattg 480
agatcatctg ctccagaacc aaccaggagc tgcaggaaat taacagagtc tacaaggaaa 540
tgtacaagac tgatctggag aaggacatta tttcggacac atctgggtgac ttccgcaagc 600
tgatggttgc cctggcaaag ggtagaagag cagaggatgg ctctgtcatt gattatgaac 660
tgattgacca agatgctcgg gatctctatg acgctggagt gaagaggaaa ggaactgatg 720
ttcccaagtg gatcagcatc atgaccgagc ggaggggccc cacctccaga aagtatttga 780
taggtacaag agttacagcc cttatgacat gttggaaagc atcaggaaaag aggttaaagg 840
agacctggaa aatgctttcc tgaacctggt tcagtgcat cagaacaagc ccctgtattt 900
tgctgatcgg ctgtatgact ccatgaaggg caaggggacg cgagataagg tctgtatcag 960
aatcatgggt tcccgagtg aagtggacat gttgaaaatt aggtctgaat tcaagagaaa1020
gtacggcaag tccctgtact attatatcca gcaagacact aagggcgact accagaaagc1080
gctgtgttac ctgtgtggtg gagatgactg aagcccagca cggcctgagc gtccagaaat1140
ggtgtctacc atgcttccag ctaacaggtc tagaaaacca gcttgcgaa aacagtcccc1200
gtggccatcc ctgtgagggg gacgttagca ttacccccaa cctcatttta gttgcctaag1260

```



```

cattgcctgg ccttcctgtc tagtctctcc tgtgaagccaa agaaatgaac attccaaggal320
gttggaagtg aagtctatga tgtgaaacac tttgcctcct gtgtactgtg tcataaacag1380
atgaataaac tgaatttga ctttagaaac acgtactttg tggccctgct ttcaactgaal440
ttgtttgaaa attaaacgtg cttgggggtc agctgggtgag gctgtccctg taggaagaaa1500
gctctgggac tgagctgtac agtatggtg cccctatcca agtgtcgcta ttttaagttaa1560
atttaaatga aataaaataa aataaaatca aaaaaa 1596

```

<210> 123  
 <211> 1033  
 <212> DNA  
 <213> Homo sapiens

<400> 123

```

gtcgcagctg accctcgtc cgcggccgc ctggagtcg acgtggaagt tgctggctga 60
ctgggcttgc gaggaaccg cctcggagct gcagccgaag gcaaggaatc actgaagatc 120
ggcgagggag gacaggggt tcacatggg tggctttttc tcaagtatat tttccagtct 180
gtttggaact cgggaaatga gaattttaat tttgggatta gatggagcag gaaaaaccac 240
aattttgtac agattacaag tgggagaagt tgttactact atacctacca ttggatttaa 300
tgtagagacg gtgacgtaca aaaaccttaa attccaagtc tgggatttag gaggacagac 360
aagtatcagg ccatactgga gatgttacta ttcaaacaca gatgcagtca tttatgtagt 420
agacagttgt gaccgagacc gaattggcat ttccaaatca gagttagttg ccatgttgga 480
ggaagaagag ctgagaaaag ccatttttagt ggtgtttgca aataaacagg acatggaaca 540
ggccatgact tcctcagaga tggcaaattc acttgggtta cctgccttga aggaccgaaa 600
atggcagata ttcaaaacgt cagcaaccaa aggcaccggc cttgatgagg caatggaatg 660
gttagttgaa acattaaaaa gcagacagta attcagtcca ttcttctccc ctgaaatgaa 720
gactacatca cctctctccc tttgaaaca gtcaagtgtg cttcacacta ctagatgtta 780
aaactatatg attattggca tatactgact gactgcaata tttgtagtaa atagggaaaa 840
taagtattta gttggaggga taatttgatc gaatcacctg aatgttctat gtaatgtaaa 900
atattctttt cttgctttct tgtgttaagg tatatatctt atttgtatgg aattcttatt 960
caaatacagt tctattaaag agtatactcc tattggatga aaaaaaccta aaaaaaaaaa1020
aaaaaaaaaa aaa 1033

```

<210> 124  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 124

Ile	Cys	Leu	Leu	Val	His	Phe	Val	Ser	Arg	Ala	Lys	Thr	Val	Asn	Leu
1				5					10					15	
Thr	Phe	Ser	Tyr	Trp	Trp	Val	Ile	Thr	Glu	Asn	Lys	Asp	Leu	Phe	Ser
			20					25					30		
Cys	Ser	Leu	Leu	Lys	Ser	His	Lys	Asn	Asn	Gln	Ile	Gly	Ser	Cys	Leu
		35					40					45			
Leu	Ser	Cys	Val	Ser	Trp	Phe	Leu	Thr	Cys	Val	His	Thr	Pro	Val	Cys
	50					55					60				
Leu															
65															

<210> 125  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 125

Ile	Ser	Val	Phe	Arg	Leu	Phe	Lys	Tyr	Leu	Thr	His	Phe	Gln	Thr	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1					5					10					15		
Thr	Met	Phe	Tyr 20	Lys	Pro	Leu	Asp	Phe 25	Gln	Gln	His	Thr	Ile 30	Glu	Asn		
Thr	Cys	Tyr 35	Ser	Lys	His	Asn	Phe 40	Ser	Val	Ser	Ser	Ile 45	Ala	Val	Val		
Arg	Asp 50	Asn	Ile	Ala	Ile	Ser 55	Gly	Met	Leu	Gln	Ala 60	Phe	Lys	Ile	Ala		
<210> 126																	
<211> 61																	
<212> PRT																	
<213> Homo sapiens																	
<400> 126																	
Lys 1	Ala	Asn	Leu	Leu 5	Pro	Ala	Thr	Pro	Glu 10	Gly	Thr	Gln	Ile	Trp 15	Val		
Gly	Pro	Val	Phe 20	Gln	Leu	Gly	Lys	Arg 25	Met	Gly	Lys	Pro	Gly 30	Asp	Gly		
Phe	His	Lys 35	Phe	Ser	Ser	Gly	Leu 40	Trp	His	Ser	Phe	Gln 45	Glu	Ile	Pro		
Leu	Gly 50	Lys	Gly	Leu	Leu	Ala 55	Asn	Met	His	Phe	Gln 60	Thr					
<210> 127																	
<211> 82																	
<212> PRT																	
<213> Homo sapiens																	
<400> 127																	
Leu 1	Lys	Asn	Thr	Asn 5	Glu	Val	Lys	Ala	Leu 10	Asn	Trp	Tyr	Thr	Leu 15	Phe		
Thr	Pro	Ile	Phe 20	Gln	Val	Trp	Lys	Cys 25	Ile	Phe	Ala	Ser	Arg 30	Pro	Leu		
Pro	Arg	Gly 35	Ile	Ser	Trp	Lys	Glu 40	Cys	His	Asn	Pro	Leu 45	Glu	Asn	Leu		
Trp	Lys 50	Pro	Ser	Pro	Gly	Phe 55	Pro	Ile	Arg	Leu	Pro 60	Ser	Trp	Lys	Thr		
Gly 65	Pro	Thr	His	Ile	Trp 70	Val	Pro	Ser	Gly	Val 75	Ala	Gly	Arg	Arg	Phe 80		
Ala	Phe																
<210> 128																	
<211> 90																	
<212> PRT																	
<213> Homo sapiens																	
<400> 128																	
His 1	Thr	Trp	Asp	Pro 5	Tyr	Pro	Leu	Gly	Ile 10	Ser	Pro	Arg	Thr	Ile 15	Arg		

Pro	Val	Cys	Gln 20	Pro	Lys	Val	Ala	Phe 25	Gly	Met	Leu	Asn	Phe 30	Pro	Leu
Ser	Lys	Lys 35	Val	His	Leu	Pro	Asn 40	Glu	Val	Thr	Ile	Arg 45	Leu	Asn	Pro
Lys	Lys 50	Ser	Leu	Asp	Phe	Val 55	Phe	Tyr	Lys	Asn	Ser 60	Thr	Phe	Pro	Ile
Lys 65	Ser	Leu	Val	Ile	Lys 70	Ile	Ser	Thr	Leu	Pro 75	Lys	Cys	Asp	Ser	Thr 80
Ala	Trp	Phe	Leu	Ala 85	Asn	Lys	Asn	Pro	Ile 90						

&lt;210&gt; 129

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 129

Met 1	Val	Ala	Asp	Tyr 5	Gly	Cys	Thr	Ile	Leu 10	Ile	Leu	Gly	Pro	Phe 15	Thr
His	Arg	Asn	His 20	Thr	Lys	Trp	Pro	Asp 25	Thr	Tyr	Phe	Thr	Glu 30	Gln	Phe
Lys	Tyr	Tyr 35	Thr	Leu	Ala	Lys	Ser 40	Thr	Tyr	Ser	Thr	His 45	Pro	Gly	Glu
Gly	Gly 50	Glu	Lys	Thr	His	Thr 55	Tyr	Lys	Thr	Thr	Ser 60	Leu	Asp	Thr	Met
Cys 65	Leu	Pro	Thr	Ile	Ser 70	Ser	Leu	Asn	Asn	Phe 75	His	Gln	Leu	Arg	Cys 80
Leu	Val														

&lt;210&gt; 130

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 130

Arg 1	Asn	Leu	Val	Thr 5	Gln	Met	Lys	Ser	Gly 10	Ile	Glu	Asp	Pro	Trp 15	Thr
Trp	Gln	Val	Asn 20	Ala	Asp	Tyr	Ser	Leu 25	Ala	Phe	Pro	Leu	Tyr 30	Leu	Cys
Lys	Glu	Gly 35	Tyr	Thr	Glu	Leu	Ile 40	Leu	Phe	Gln	Ala	Tyr 45	Asn	Phe	Lys
Phe	Tyr 50	His	Leu	Asn	Ser	Ser 55	Thr	Phe	Ala	Ala	Glu 60	Glu	Trp	Asn	Gln
Lys 65	Asn	Val	Val	Ser	Trp 70										

&lt;210&gt; 131

<211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 131

Ala 1	Ile	Gln	Cys	Glu 5	Ala	Tyr	Phe	Ile	Ala 10	Thr	Leu	Val	Asp	Cys 15	Gln
Gly	Asp	Ser	Ala 20	Thr	Val	Leu	Asp	Lys 25	Leu	Met	Phe	Pro	Phe 30	Ser	Leu
Ala	Ala	Asn 35	Arg	Arg	Ala	Thr	Tyr 40	Ser	Ala	Gly	Ser	Arg 45	Ala	Arg	Ser
Trp	Gly 50	Ser	Arg	Gly	Tyr	Thr 55	Ser	Ser	Leu	Ile	Ile 60				

<210> 132  
 <211> 181  
 <212> PRT  
 <213> Homo sapiens

<400> 132

Ile 1	Pro	Asn	Met	Ala 5	Ala	Pro	Leu	Gly	Gly 10	Met	Phe	Ser	Gly	Gln 15	Pro
Pro	Gly	Pro	Pro 20	Gln	Ala	Pro	Pro	Gly 25	Leu	Pro	Gly	Gln	Ala 30	Ser	Leu
Leu	Gln	Ala 35	Ala	Pro	Gly	Ala	Pro 40	Arg	Pro	Ser	Ser	Ser 45	Thr	Leu	Val
Asp	Glu 50	Leu	Glu	Ser	Ser	Phe 55	Glu	Ala	Cys	Phe	Ala 60	Ser	Leu	Val	Ser
Gln 65	Asp	Tyr	Val	Asn	Gly 70	Thr	Asp	Gln	Glu	Glu 75	Ile	Arg	Thr	Gly	Val 80
Asp	Gln	Cys	Ile	Gln 85	Lys	Phe	Leu	Asp	Ile 90	Ala	Arg	Gln	Thr	Glu 95	Cys
Phe	Phe	Leu	Gln 100	Lys	Arg	Leu	Gln	Leu 105	Ser	Val	Gln	Lys	Pro 110	Glu	Gln
Val	Ile	Lys 115	Glu	Asp	Val	Ser	Glu 120	Leu	Arg	Asn	Glu	Leu 125	Gln	Arg	Lys
Asp	Ala 130	Leu	Val	Gln	Lys	His 135	Leu	Thr	Lys	Leu	Arg 140	His	Trp	Gln	Gln
Val 145	Leu	Glu	Asp	Ile	Asn 150	Val	Gln	His	Lys	Lys 155	Pro	Ala	Asp	Ile	Pro 160
Gln	Gly	Ser	Leu	Ala 165	Tyr	Leu	Glu	Gln	Ala 170	Ser	Ala	Asn	Ile	Pro 175	Ala
Pro	Leu	Lys	Pro 180	Thr											

<210> 133  
 <211> 423

<213> Homo sapiens

<400> 133

Leu 1	Ser	Glu	Asp	Glu 5	Ile	Arg	Thr	Leu	Lys 10	Gln	Lys	Lys	Ile	Asp 15	Glu
Thr	Ser	Glu	Gln 20	Glu	Gln	Lys	His	Lys 25	Glu	Thr	Asn	Asn	Ser 30	Asn	Ala
Gln	Asn	Pro 35	Ser	Glu	Glu	Glu	Gly 40	Glu	Gly	Gln	Asp	Glu 45	Asp	Ile	Leu
Pro	Leu 50	Thr	Leu	Glu	Glu	Lys 55	Glu	Asn	Lys	Glu	Tyr 60	Leu	Lys	Ser	Leu
Phe 65	Glu	Ile	Leu	Ile	Leu 70	Met	Gly	Lys	Gln	Asn 75	Ile	Pro	Leu	Asp	Gly 80
His	Glu	Ala	Asp	Glu 85	Ile	Pro	Glu	Gly	Leu 90	Phe	Thr	Pro	Asp	Asn 95	Phe
Gln	Ala	Leu	Leu 100	Glu	Cys	Arg	Ile	Asn 105	Ser	Gly	Glu	Glu	Val 110	Leu	Arg
Lys	Arg	Phe 115	Glu	Thr	Thr	Ala	Val 120	Asn	Thr	Leu	Phe	Cys 125	Ser	Lys	Thr
Gln	Gln 130	Arg	Gln	Met	Leu	Glu 135	Ile	Cys	Glu	Ser	Cys 140	Ile	Arg	Glu	Glu
Thr 145	Leu	Arg	Glu	Val	Arg 150	Asp	Ser	His	Phe	Phe 155	Ser	Ile	Ile	Thr	Asp 160
Asp	Val	Val	Asp	Ile 165	Ala	Gly	Glu	Glu	His 170	Leu	Pro	Val	Leu	Val 175	Arg
Phe	Val	Asp	Glu 180	Ser	His	Asn	Leu	Arg 185	Glu	Glu	Phe	Ile	Gly 190	Phe	Leu
Pro	Tyr	Glu 195	Ala	Asp	Ala	Glu	Ile 200	Leu	Ala	Val	Lys	Phe 205	His	Thr	Met
Ile	Thr 210	Glu	Lys	Trp	Gly	Leu 215	Asn	Met	Glu	Tyr	Cys 220	Arg	Gly	Gln	Ala
Tyr 225	Ile	Val	Ser	Ser	Gly 230	Phe	Ser	Ser	Lys	Met 235	Lys	Val	Val	Ala	Ser 240
Arg	Leu	Leu	Glu	Lys 245	Tyr	Pro	Gln	Ala	Ile 250	Tyr	Thr	Leu	Cys	Ser 255	Ser
Cys	Ala	Leu	Asn 260	Met	Trp	Leu	Ala	Lys 265	Ser	Val	Pro	Val	Met 270	Gly	Val
Ser	Val	Ala 275	Leu	Gly	Thr	Ile	Glu 280	Glu	Val	Cys	Ser	Phe 285	Phe	His	Arg
Ser	Pro 290	Gln	Leu	Leu	Leu	Glu 295	Leu	Asp	Asn	Val	Ile 300	Ala	Val	Leu	Phe
Gln	Asn	Ser	Lys	Glu	Arg	Gly	Lys	Glu	Leu	Lys	Glu	Ile	Cys	His	Ser

305					310						315					320
Gln	Trp	Thr	Gly	Arg	His	Asp	Ala	Phe	Glu	Ile	Leu	Val	Glu	Leu	Leu	
				325					330					335		
Gln	Ala	Leu	Val	Leu	Cys	Leu	Asp	Gly	Ile	Asn	Ser	Asp	Thr	Asn	Ile	
			340					345					350			
Arg	Trp	Asn	Asn	Tyr	Ile	Ala	Gly	Arg	Ala	Phe	Val	Leu	Cys	Ser	Ala	
		355					360					365				
Val	Ser	Asp	Phe	Asp	Phe	Ile	Val	Thr	Ile	Val	Val	Leu	Lys	Asn	Val	
	370					375					380					
Leu	Ser	Phe	Thr	Arg	Ala	Phe	Gly	Lys	Asn	Leu	Gln	Gly	Gln	Thr	Ser	
385					390					395					400	
Asp	Val	Phe	Phe	Ala	Ala	Gly	Ser	Leu	Thr	Ala	Val	Leu	His	Ser	Leu	
				405					410					415		
Asn	Glu	Val	Ser	Gly	Lys	Tyr										
			420													

&lt;210&gt; 134

&lt;211&gt; 237

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 134

Val	Glu	Asn	Ile	Glu	Val	Tyr	His	Glu	Phe	Trp	Phe	Glu	Glu	Ala	Thr
1				5					10					15	
Asn	Leu	Ala	Thr	Lys	Leu	Asp	Ile	Gln	Met	Lys	Leu	Pro	Gly	Lys	Phe
			20					25					30		
Arg	Arg	Ala	His	Gln	Gly	Asn	Leu	Glu	Ser	Gln	Leu	Thr	Ser	Glu	Ser
		35					40					45			
Tyr	Tyr	Lys	Glu	Thr	Leu	Ser	Val	Pro	Thr	Val	Glu	His	Ile	Ile	Gln
	50					55					60				
Glu	Leu	Lys	Asp	Ile	Phe	Ser	Glu	Gln	His	Leu	Lys	Ala	Leu	Lys	Cys
65					70					75					80
Leu	Ser	Leu	Val	Pro	Ser	Val	Met	Gly	Gln	Leu	Lys	Phe	Asn	Thr	Ser
				85					90					95	
Glu	Glu	His	His	Ala	Asp	Met	Tyr	Arg	Ser	Asp	Leu	Pro	Asn	Pro	Asp
			100					105					110		
Thr	Leu	Ser	Ala	Glu	Leu	His	Cys	Trp	Arg	Ile	Lys	Trp	Lys	His	Arg
		115					120					125			
Gly	Lys	Asp	Ile	Glu	Leu	Pro	Ser	Thr	Ile	Tyr	Glu	Ala	Leu	His	Leu
	130					135					140				
Pro	Asp	Ile	Lys	Phe	Phe	Pro	Asn	Val	Tyr	Ala	Leu	Leu	Lys	Val	Leu
145					150					155					160
Cys	Ile	Leu	Pro	Val	Met	Lys	Val	Glu	Asn	Glu	Arg	Tyr	Glu	Asn	Gly
				165					170					175	

Arg	Lys	Arg	Leu 180	Lys	Ala	Tyr	Leu	Arg 185	Asn	Thr	Leu	Thr	Asp 190	Gln	Arg
Ser	Ser	Asn 195	Leu	Ala	Leu	Leu	Asn 200	Ile	Asn	Phe	Asp	Ile 205	Lys	His	Asp
Leu	Asp 210	Leu	Met	Val	Asp	Thr 215	Tyr	Ile	Lys	Leu	Tyr 220	Thr	Ser	Lys	Ser
Glu 225	Leu	Pro	Thr	Asp	Asn 230	Ser	Glu	Thr	Val	Glu 235	Asn	Thr			

<210> 135  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 135

Arg 1	Ile	Arg	Ile	Asn 5	Gly	Ser	Leu	Cys	Pro 10	Gln	Thr	Lys	Asn	Asn 15	Leu
Tyr	Phe	His	Ile 20	Val	Glu	Leu	Ser	Ile 25	Ser	Gly	Ala	Ser	Val 30	Gly	Glu
Arg	Trp	Tyr 35	Gly	Met	Gly	Glu	Ser 40	Ile	Leu	Pro	Ala	Arg 45	Gly	Glu	Ser
Gln	Gly 50	Leu	Leu	Cys	Leu	Tyr 55	Phe	Tyr	Lys	Glu	Ile 60	Leu	Pro	Leu	Phe
Leu 65	Val	Asn	Lys	Leu	Arg 70	Gly	Thr	Asp	Val	Gly 75	Leu	Glu	Gln	Gly	Leu 80
Ser	Gly	Gly	Glu	Gly 85	Ser	Trp	Thr	Ala							

<210> 136  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 136

Glu 1	Glu	Glu	Arg	Ala 5	Lys	Arg	Glu	Glu	Leu 10	Glu	Arg	Ile	Leu	Glu 15	Glu
Asn	Asn	Arg	Lys 20	Ile	Ala	Glu	Ala	Gln 25	Ala	Lys	Leu	Ala	Glu 30	Glu	Gln
Leu	Arg	Ile 35	Val	Glu	Glu	Gln	Arg 40	Lys	Ile	His	Glu	Glu 45	Arg	Met	Lys
Leu 50	Glu	Gln	Glu	Arg	Gln	Arg 55	Gln	Gln	Lys	Glu	Glu 60	Gln	Lys	Ile	Ile
Leu 65	Gly	Lys	Gly	Lys	Ser 70	Arg	Pro	Lys	Leu	Ser 75	Phe	Ser	Leu	Lys	Thr 80
Gln	Asp														

<210> 137  
 <211> 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 137

Ser	Ala	Leu	Lys	Val	Glu	Tyr	Leu	Leu	Ser	Cys	Pro	Val	Ser	Cys	Arg
1				5					10					15	
Val	Cys	Ser	Ser	Ala	Ala	Ile	Arg	Ala	Ser	Phe	Leu	Phe	Lys	Met	Ile
			20					25					30		
Cys	Thr	Val	Ser	Leu	Ala	Ile	Pro	Ala	Ser	Ala	Ala	Gln	Pro	Phe	Ile
		35					40					45			
Lys	Lys	Gln	His	Thr	Arg	Lys	Ala	Glu	Leu	Arg	Asn	Ala	Asp	Val	Tyr
	50					55					60				
Gly	Lys	Lys	Glu	Gln	Lys	Met									
65					70										

&lt;210&gt; 138

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 138

Ser	Ser	Ala	Gln	Arg	Lys	Tyr	Phe	Asn	Leu	Pro	Val	Glu	Ile	Leu	Val
1				5					10					15	
Met	Glu	Arg	Cys	Gln	Thr	Val	Leu	Asn	Gly	Arg	Thr	Ser	Lys	Ser	Glu
			20					25					30		
Ala	Thr	Val	Pro	Thr	Thr	Arg	Gly	Leu	Leu	Tyr	Cys	Ser	Thr	Phe	Ser
		35					40					45			
Ala	Leu	Tyr	Phe	Leu	Ala	Glu	Ala	Ser	Pro	Trp	Ser	Ala	Met	Tyr	Lys
	50					55					60				
Leu	Gly	Tyr													
65															

&lt;210&gt; 139

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 139

Arg	Ala	Glu	Lys	Val	Glu	Gln	Tyr	Lys	Ser	Pro	Arg	Val	Val	Gly	Thr
1				5					10					15	
Val	Ala	Ser	Leu	Leu	Leu	Val	Leu	Pro	Phe	Lys	Thr	Val	Trp	His	Leu
			20					25					30		
Ser	Met	Thr	Arg	Ile	Ser	Thr	Gly	Arg	Leu	Lys	Tyr	Phe	Leu	Cys	Ala
		35					40					45			
Glu															

&lt;210&gt; 140

&lt;211&gt; 132

&lt;212&gt; PRT



&lt;213&gt; Homo sapiens

&lt;400&gt; 140

Ser 1	Cys	Glu	Arg	Arg 5	Gly	Phe	Ile	Met	Ala 10	Asp	Asp	Leu	Lys	Arg 15	Phe
Leu	Tyr	Lys	Lys 20	Leu	Pro	Ser	Val	Glu 25	Gly	Leu	His	Ala	Ile 30	Val	Val
Ser	Asp	Arg 35	Asp	Gly	Val	Pro	Val 40	Ile	Lys	Val	Ala	Asn 45	Asp	Asn	Ala
Pro	Glu 50	His	Ala	Leu	Arg	Pro 55	Gly	Phe	Leu	Ser	Thr 60	Phe	Ala	Leu	Ala
Thr 65	Asp	Gln	Gly	Ser	Lys 70	Leu	Gly	Leu	Ser	Lys 75	Asn	Lys	Ser	Ile	Ile 80
Cys	Tyr	Tyr	Asn	Thr 85	Tyr	Gln	Val	Val	Gln 90	Phe	Asn	Arg	Leu	Pro 95	Leu
Val	Val	Ser	Phe 100	Ile	Ala	Ser	Ser	Ser 105	Ala	Asn	Thr	Gly	Leu 110	Ile	Val
Ser	Leu	Glu 115	Lys	Glu	Leu	Ala	Pro 120	Leu	Phe	Glu	Glu	Leu 125	Arg	Gln	Val
Val	Glu 130	Val	Ser												

&lt;210&gt; 141

&lt;211&gt; 126

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 141

Gln 1	Met	Ile	Leu	Leu 5	Phe	Leu	Glu	Ser	Pro 10	Ser	Leu	Leu	Pro	Trp 15	Ser
Val	Ala	Arg	Ala 20	Lys	Val	Asp	Lys	Lys 25	Pro	Gly	Arg	Lys	Ala 30	Cys	Ser
Gly	Ala	Leu 35	Ser	Phe	Ala	Thr	Leu 40	Ile	Thr	Gly	Thr	Pro 45	Ser	Leu	Ser
Asp	Thr 50	Thr	Met	Ala	Trp	Ser 55	Pro	Ser	Thr	Leu	Gly 60	Asn	Phe	Leu	Tyr
Lys 65	Asn	Arg	Phe	Arg	Ser 70	Ser	Ala	Met	Met	Asn 75	Pro	Leu	Leu	Ser	Gln 80
Asp	Gln	Ser	Pro	Arg 85	Leu	Gly	Phe	Leu	Gly 90	Cys	Leu	Val	Leu	Ser 95	Ala
Val	Thr	Ser	Gly 100	Thr	Ala	Leu	Lys	Thr 105	Gly	Ser	Ser	Ser	Ser 110	His	Arg
His	Met	Ile 115	His	Asp	Leu	Val	Cys 120	Ala	Pro	Gly	Ser	Thr 125	Phe		

&lt;210&gt; 142

<211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 142

Ser 1	Ala	Val	Lys	Arg 5	Gly	Trp	Asp	Leu	Asn 10	Met	Ala	Ala	Val	Val 15	Ala
Ala	Thr	Ala	Leu 20	Lys	Gly	Arg	Gly	Ala 25	Arg	Asn	Ala	Arg	Val 30	Leu	Arg
Gly	Ile	Leu 35	Ala	Gly	Ala	Thr	Ala 40	Asn	Lys	Ala	Ser	His 45	Asn	Arg	Thr
Arg	Ala 50	Leu	Gln	Ser	His	Ser 55	Ser	Pro	Glu	Gly	Lys 60	Glu	Glu	Pro	Glu
Pro 65	Leu	Ser	Pro	Glu	Leu 70	Glu	Tyr	Ile	Pro	Arg 75	Lys	Arg	Gly	Lys	Asn 80
Pro	Met	Lys	Ala	Val 85	Gly	Leu	Ala	Trp	Ala 90	Ile	Gly	Phe	Pro	Cys 95	Gly
Ile	Leu	Leu	Phe 100	Ile	Leu	Thr	Lys	Arg 105	Glu	Val	Asp	Lys	Asp 110	Arg	Val
Lys	Gln	Met 115	Lys	Ala	Arg	Gln	Asn 120	Met	Arg	Leu	Ser	Asn 125	Thr	Gly	Glu
Tyr	Glu 130	Ser	Gln	Arg	Phe	Arg 135	Ala	Ser	Ser	Gln	Ser 140	Ala	Pro	Ser	Pro
Asp 145	Val	Gly	Ser	Gly	Val 150	Gln	Thr								

<210> 143  
 <211> 114  
 <212> PRT  
 <213> Homo sapiens

<400> 143

Glu 1	Gly	Arg	Ser	Ala 5	Pro	Gln	Val	Cys	Thr 10	Pro	Asp	Pro	Thr	Ser 15	Gly
Asp	Gly	Ala	Leu 20	Trp	Glu	Glu	Ala	Leu 25	Asn	Leu	Trp	Leu	Ser 30	Tyr	Ser
Pro	Val	Leu 35	Asp	Asn	Arg	Met	Phe 40	Cys	Arg	Ala	Phe	Ile 45	Cys	Phe	Thr
Arg	Ser 50	Leu	Ser	Thr	Ser	Arg 55	Leu	Val	Arg	Met	Lys 60	Arg	Arg	Ile	Pro
Gln 65	Gly	Lys	Pro	Met	Ala 70	Gln	Ala	Ser	Pro	Thr 75	Ala	Phe	Met	Gly	Phe 80
Leu	Pro	Leu	Phe	Leu 85	Gly	Met	Tyr	Ser	Ser 90	Ser	Gly	Asp	Arg	Gly 95	Ser
Gly	Ser	Ser	Leu 100	Pro	Ser	Gly	Glu	Leu 105	Trp	Leu	Cys	Arg	Ala 110	Arg	Val

Leu Leu

&lt;210&gt; 144

&lt;211&gt; 267

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 144

Glu 1	Asp	Glu	Val	Glu 5	Glu	Glu	Ser	Thr	Ala 10	Leu	Gln	Lys	Thr	Asp 15	Lys
Lys	Glu	Ile	Leu 20	Lys	Lys	Ser	Glu	Lys 25	Asp	Thr	Asn	Ser	Lys 30	Val	Lys
Pro	Lys	Gly 35	Lys	Val	Arg	Trp	Thr 40	Gly	Ser	Arg	Thr	Arg 45	Gly	Arg	Trp
Lys	Tyr 50	Ser	Ser	Asn	Asp	Glu 55	Ser	Glu	Gly	Ser	Gly 60	Ser	Glu	Lys	Ser
Ser 65	Ala	Ala	Ser	Glu	Glu 70	Glu	Glu	Glu	Lys	Glu 75	Ser	Glu	Glu	Ala	Ile 80
Leu	Ala	Asp	Asp	Asp 85	Glu	Pro	Cys	Lys	Lys 90	Cys	Gly	Leu	Pro	Asn 95	His
Pro	Glu	Leu	Ile 100	Leu	Leu	Cys	Asp	Ser 105	Cys	Asp	Ser	Gly	Tyr 110	His	Thr
Ala	Cys	Leu 115	Arg	Pro	Pro	Leu	Met 120	Ile	Ile	Pro	Asp	Gly 125	Glu	Trp	Phe
Cys	Pro 130	Pro	Cys	Gln	His	Lys 135	Leu	Leu	Cys	Glu	Lys 140	Leu	Glu	Glu	Gln
Leu 145	Gln	Asp	Leu	Asp	Val 150	Ala	Leu	Lys	Lys 155	Glu	Arg	Ala	Glu	Arg 160	
Arg	Lys	Glu	Arg	Leu 165	Val	Tyr	Val	Gly	Ile 170	Ser	Ile	Glu	Asn 175	Ile	Ile
Pro	Pro	Gln	Glu 180	Pro	Asp	Phe	Ser	Glu 185	Asp	Gln	Glu	Glu	Lys 190	Lys	Lys
Asp	Ser	Lys 195	Lys	Ser	Lys	Ala	Asn 200	Leu	Leu	Glu	Arg	Arg 205	Ser	Thr	Arg
Thr	Arg 210	Lys	Cys	Ile	Ser	Tyr 215	Arg	Phe	Asp	Glu	Phe 220	Asp	Glu	Ala	Ile
Asp 225	Glu	Ala	Ile	Glu	Asp 230	Asp	Ile	Lys	Glu	Ala 235	Asp	Gly	Gly	Gly	Val 240
Gly	Arg	Gly	Lys	Asp 245	Ile	Ser	Thr	Ile	Thr 250	Gly	His	Arg	Gly	Lys 255	Asp
Ile	Ser	Thr	Ile 260	Leu	Asp	Glu	Lys	Ile 265	Ile	Thr					

&lt;210&gt; 145

&lt;211&gt; 185

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 145

Ser 1	Ser	Glu	Lys	Ser 5	Gly	Ser	Cys	Gly	Gly 10	Met	Met	Phe	Ser	Ile 15	Leu
Ile	Pro	Thr	Tyr 20	Thr	Lys	Arg	Ser	Phe 25	Leu	Arg	Ser	Ala	Arg 30	Ser	Phe
Phe	Phe	Lys 35	Ala	Thr	Ser	Lys	Ser 40	Cys	Asn	Cys	Ser	Ser 45	Asn	Phe	Ser
Gln	Ser 50	Ser	Leu	Cys	Trp	Gln 55	Gly	Gly	Gln	Asn	His 60	Ser	Pro	Ser	Gly
Met 65	Ile	Ile	Arg	Gly	Gly 70	Arg	Arg	Gln	Ala	Val 75	Trp	Tyr	Pro	Leu	Ser 80
Gln	Glu	Ser	His	Arg 85	Arg	Ile	Ser	Ser	Gly 90	Trp	Phe	Gly	Arg	Pro 95	His
Phe	Leu	His	Gly 100	Ser	Ser	Ser	Ser	Ala 105	Arg	Met	Ala	Ser	Ser 110	Leu	Ser
Phe	Ser	Ser 115	Ser	Ser	Ser	Glu	Ala 120	Ala	Asp	Asp	Phe	Ser 125	Leu	Pro	Asp
Pro	Ser 130	Leu	Ser	Ser	Leu	Leu 135	Glu	Tyr	Phe	His	Leu 140	Pro	Arg	Val	Arg
Glu 145	Pro	Val	His	Arg	Thr 150	Leu	Pro	Leu	Gly	Phe 155	Thr	Leu	Glu	Phe	Val 160
Ser	Phe	Ser	Asp	Phe 165	Phe	Lys	Ile	Ser	Phe 170	Leu	Ser	Val	Phe	Cys 175	Lys
Ala	Val	Asp	Ser 180	Ser	Ser	Thr	Ser	Ser 185							

&lt;210&gt; 146

&lt;400&gt; 146

000

&lt;210&gt; 147

&lt;400&gt; 147

000

&lt;210&gt; 148

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 148

Lys 1	Arg	Gln	Pro	Thr 5	Ser	Ala	Met	Lys	Asp 10	Pro	Ser	Arg	Ser	Ser 15	Thr
Ser	Pro	Ser	Ile 20	Ile	Asn	Glu	Asp	Val 25	Ile	Ile	Asn	Gly	His 30	Ser	His
Glu	Asp	Asp	Asn	Pro	Phe	Ala	Glu	Tyr	Met	Trp	Met	Glu	Asn	Glu	Glu

35						40					45				
Glu	Phe	Asn	Arg	Gln	Ile	Glu	Glu	Glu	Leu	Trp	Glu	Glu	Glu	Phe	Ile
	50					55					60				
Glu	Arg	Cys	Phe	Gln	Glu	Met	Leu	Glu	Glu	Glu	Glu	Glu	His	Glu	Trp
65					70					75					80
Phe	Ile	Pro	Ala	Arg	Asp	Leu	Pro	Gln	Thr	Met	Asp	Gln	Ile	Gln	Asp
				85					90					95	
Gln	Phe	Asn	Asp	Leu	Val	Ile	Ser	Asp	Gly	Ser	Ser	Leu	Glu	Asp	Leu
			100					105					110		
Val	Val	Lys	Ser	Asn	Leu	Asn	Pro	Asn	Ala	Lys	Glu	Phe	Val	Pro	Gly
		115					120				125				
Val	Lys	Tyr	Gly	Asn	Ile										
	130														

&lt;210&gt; 149

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 149

His	Ser	Asp	Lys	Arg	Ala	Phe	Thr	Ile	Lys	Ser	Ser	Asn	Thr	Ala	Phe
1				5					10					15	
Thr	Val	Trp	Lys	Leu	Cys	Tyr	Ile	His	Gln	Lys	Arg	Ala	Pro	Ser	Thr
			20					25					30		
Gln	Ile	Phe	Pro	Tyr	Phe	Thr	Pro	Gly	Thr	Asn	Ser	Phe	Ala	Phe	Gly
		35					40					45			
Phe	Arg	Leu	Leu	Leu	Thr	Thr	Arg	Ser	Ser	Arg	Glu	Glu	Pro	Ser	Leu
	50					55					60				
Ile	Thr	Arg	Ser	Leu	Asn	Trp	Ser	Trp	Ile	Trp	Ser	Ile	Val	Cys	Gly
65					70					75					80
Arg	Ser	Arg	Ala	Gly	Ile	Asn	His	Ser	Cys	Ser	Ser	Ser	Ser	Ser	Ser
				85					90					95	
Ile	Ser	Trp	Lys	Gln	Arg	Ser	Ile	Asn	Ser	Ser	Ser	His	Asn	Ser	Ser
			100					105					110		
Ser	Ile	Cys	Leu	Leu	Asn	Ser	Ser	Ser	Phe	Ser	Ile	His	Met	Tyr	Ser
		115					120					125			
Ala	Asn	Gly	Leu	Ser	Ser	Ser									
	130					135									

&lt;210&gt; 150

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 150

Leu	Val	Ser	Gly	Ala	Asn	Gln	Cys	Gly	Ser	Cys	Asn	Ser	Lys	Ser	Phe
1				5					10					15	

Leu	Thr	Lys	Ala 20	Trp	Tyr	Tyr	Arg	Val 25	Gly	Phe	Arg	Phe	Phe 30	Arg	Gly
Gly	Leu	Phe 35	Asp	Phe	Asp	Phe	Phe 40	Phe	Phe	Tyr	Val	Ile 45	Phe	Gly	Lys
Thr	His 50	Ser	Glu	Leu	Tyr	Leu 55	Val	Ser	Thr						

<210> 151  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 151

Phe 1	Phe	Val	Leu	Lys 5	Ser	Leu	Leu	Val	Gly 10	Ala	Cys	Tyr	Trp	Glu 15	Gln
Val	Phe	Val	Gln 20	Lys	Leu	Gln	Ser	Glu 25	Ser	Leu	Cys	Ile	Thr 30	Glu	Thr
Leu	Phe	Ile 35	Thr	Ser	Leu	Leu	Ser 40	Leu	Pro	Gln	Lys	Thr 45	Val	Gly	Leu
Asn	Lys 50	Ile	Ile	Cys	Ile	Leu 55	Ile	Tyr	Leu	Lys	Cys 60	Leu			

<210> 152  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 152

Ser 1	Ala	Cys	Lys	Phe 5	Leu	Arg	Asp	Leu	Pro 10	Leu	Leu	Thr	Val	Asp 15	Gln
Leu	Met	Tyr	Thr 20	Cys	Ile	Ile	Lys	Ala 25	Leu	Asn	Lys	Ser	Leu 30	Trp	Leu
Ile	Thr	Ala 35	Lys	Met	Gly	Thr	Arg 40	His	Leu	Leu	Cys	Val 45	Leu	Val	Thr
Ala	Val 50	Ala	Leu	Arg	Ala	Val 55	Arg	Pro	Cys	Leu	Ile 60				

<210> 153  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 153

Lys 1	Arg	Asp	Ile	Ile 5	Leu	Asn	Val	Phe	Ser 10	Gln	Arg	Ser	His	Lys 15	Arg
Lys	Lys	Asn	Gln 20	Asn	Gln	Ile	Asn	His 25	His	Glu	Lys	Asn	Glu 30	Thr	Pro
His	Gly	Asn 35	Thr	Lys	Leu	Trp	Leu 40	Gly	Ser	Ser	Tyr	Tyr 45	Tyr	Ser	Ser

His Ile Gly Trp Arg Arg Lys Pro  
50 55

<210> 154

<400> 154

000

<210> 155

<211> 150

<212> PRT

<213> Homo sapiens

<400> 155

Ile Pro Val His Arg Leu His Gly Arg Ala Asp Pro Leu Gly Trp Ser  
1 5 10 15

Ile Val Ser Asp Leu Ile Thr Ser Gly Leu Gly Ala Gly Val Leu Arg  
20 25 30

Gly Leu Pro Ala Arg Arg Leu His Ser Leu Gly Arg Arg Val Leu Gly  
35 40 45

Arg Pro Gly Val Trp Leu Glu Arg Leu Gly His Gly Arg Arg Asp Ala  
50 55 60

Leu Gly Ala Trp Ser Ala Ala Gln Arg Pro Arg Thr Pro Gly Arg Pro  
65 70 75 80

Ala Cys Val Cys Ala Pro Arg Arg Gly Pro Glu Ser Pro Ser Ala Asp  
85 90 95

Pro Val Pro Pro Pro Gly Arg Ala Gly Asp Pro Ser Pro Pro Asp Ala  
100 105 110

Ser Ala Ser Gly Pro Arg Gly Gly Ala Ala Thr Lys Ala Gly Pro Ala  
115 120 125

His Asp Pro Gly Gln Leu Arg Pro Glu Leu Arg Val Leu Pro Pro Pro  
130 135 140

Pro Arg Gly Asp Arg Glu  
145 150

<210> 156

<211> 81

<212> PRT

<213> Homo sapiens

<400> 156

Leu Pro Val Ala Ala Gly Gly Arg Gly Gln Asp Ala Gln Leu Arg Pro  
1 5 10 15

Glu Leu Ser Gly Val Val Ser Arg Pro Arg Leu Gly Gly Ala Pro  
20 25 30

Ser Arg Ser Arg Gly Arg Arg Ile Gly Trp Ala Arg Val Ser Ser Pro  
35 40 45

Ala Gly Arg Arg Asp Arg Val Cys Gly Gly Gly Leu Gly Ala Ser Ala  
50 55 60

Gly	Arg	Ala	His	Ala	Gly	Gly	Ala	Ala	Arg	Gly	Ala	Gly	Pro	Leu	Arg
65					70					75					80

Gly

&lt;210&gt; 157

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 157

Pro	Gly	Ser	Gln	Ser	Val	Thr	Pro	Pro	Met	Ala	Glu	Pro	Leu	Gln	Pro
1				5					10					15	
Asp	Pro	Gly	Ala	Ala	Glu	Asp	Ala	Ala	Ala	Gln	Ala	Val	Glu	Thr	Pro
			20					25					30		
Gly	Trp	Lys	Ala	Pro	Glu	Asp	Ala	Gly	Pro	Gln	Pro	Gly	Ser	Tyr	Glu
		35					40					45			
Ile	Arg	His	Tyr	Gly	Pro	Ala	Lys	Trp	Val	Ser	Thr	Ser	Val	Glu	Ser
	50					55					60				
Met	Asp	Trp	Asp	Ser	Ala	Ile	Gln	Thr	Gly	Phe	Thr	Lys	Leu	Asn	Ser
65					70					75					80
Tyr	Ile	Gln	Gly	Lys	Asn	Glu	Lys	Glu	Met	Lys	Ile	Lys	Met	Thr	Ala
				85					90					95	
Pro	Val	Thr	Ser	Tyr	Val	Glu	Pro	Gly	Ser	Gly	Pro	Phe	Ser	Glu	Ser
			100					105					110		
Thr	Ile	Thr	Ile	Ser	Leu	Tyr	Ile	Pro	Ser	Glu	Gln	Gln	Phe	Asp	Pro
		115					120					125			
Pro	Arg	Pro	Leu	Glu	Ser	Asp	Val	Phe	Ile	Glu	Asp	Arg	Ala	Glu	Met
	130					135					140				
Thr	Val	Phe	Val	Arg	Ser	Phe	Asp	Gly	Phe	Ser	Ser	Ala	Gln	Lys	Asn
145					150					155					160
Gln	Glu	Gln	Leu	Leu	Thr	Leu	Ala	Ser	Ile	Leu	Arg	Glu	Asp	Gly	Lys
				165					170					175	
Val	Phe	Asp	Glu	Lys	Val	Tyr	Tyr	Thr	Ala	Gly	Tyr	Asn	Ser	Pro	Val
			180					185					190		
Lys	Leu	Leu	Asn	Arg	Asn	Asn	Glu	Val	Trp	Leu	Ile	Gln	Lys	Asn	Glu
		195					200					205			
Pro	Thr	Lys	Glu	Asn	Glu										
	210														

&lt;210&gt; 158

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 158

Pro	Asn	Phe	Tyr	Arg	Gly	Phe	Ile	Phe	Asn	Leu	Thr	Met	Cys	Gly	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



1			5			10			15						
Leu	Ser	Cys	Leu 20	Asn	Leu	Phe	Arg	Ala 25	Val	Cys	Ser	Val	His 30	Gln	Met
Gly	Arg	Ser 35	Gly	Met	Gly	His	Leu 40	Arg	Pro	Phe	Arg	Ser 45	Gly	Leu	Asn
Arg	Met 50	Leu	Glu	Pro	Arg	Leu 55	Asp	Ser	Asp	Thr	Leu 60	Arg	Phe		

<210> 159  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 159

Ile 1	His	Leu	Pro	Lys 5	Lys	Leu	Ile	Ser	Phe 10	Tyr	Leu	Arg	Gly	Glu 15	Val
Gln	Phe	Ser	Phe 20	Gly	Ser	Ser	Glu	Ser 25	Lys	His	Leu	Ile	Cys 30	Trp	Val
Trp	Lys	Thr 35	Pro	Phe	Leu	Ala	Phe 40	Tyr	Val	Leu	Ser	His 45	Asn	Asn	Ser
Ile	Lys 50	Gln	Glu	Gly	Lys	Gln 55	Lys	Thr	Lys	Lys	Lys 60	Lys	Gly	Lys	Lys
Lys 65	Asn	Leu	His	Gly	Leu 70	Val	Ser	Leu	Thr	Lys 75	His	Val	Gly	Ala	Val 80
Cys	Leu	Gly	Gly	Ala 85	Gly	Tyr	Arg	Thr	Cys 90	Gln	Cys	Leu	Gly	Phe 95	Ser
Ile	Asn	Leu	Ala 100	Arg	Asp	Ile	Lys								

<210> 160  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 160

Ser 1	Leu	Leu	Ile	Ser 5	Arg	Lys	Ile	Lys	Gln 10	Asn	Thr	Ser	Pro	Ala 15	Arg
Leu	Thr	Cys	Val 20	Tyr	Ile	Tyr	Ile	Lys 25	Gln	Arg	Ala	Thr	Pro 30	Thr	Ser
Gln	Gln	Leu 35	Gly	Glu	Ile	Ser	Ala 40	Val	His	Ala	Val	Val 45	Cys	Gln	Phe
Gly	Glu 50	Ile	Thr	Pro	Trp	Lys 55	Asn	Trp	Lys	Asn	Leu 60	Leu	Ala	Gly	Lys
Asn 65	Ser	Phe	Ile	Cys	Ile 70	Lys	Ser	Val	Leu	Gln 75	Lys	Asn	Pro	Cys	Gly 80

<210> 161  
 <400> 161

000

&lt;210&gt; 162

&lt;400&gt; 162

000

&lt;210&gt; 163

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 163

Pro	Ser	Ile	Asp	Leu	Glu	Ala	Glu	Glu	Ser	Gln	Arg	Leu	Leu	Lys	Val
1				5					10					15	
Val	Met	Trp	Phe	Ser	Phe	Lys	Lys	Leu	Leu	Phe	Leu	Glu	Ser	Arg	Ile
			20					25					30		
Tyr	Gly	Tyr	Asn	Val	Cys	Ser	Leu	Phe	Val	His	Lys	Ile	Lys	Pro	Phe
		35					40					45			
Lys	Lys	Leu	Lys	Lys	Lys	Lys	Lys	Arg	Gly	Glu	Lys	Lys	Arg	Glu	Lys
	50					55					60				
Gly	Lys	Gly	Lys	Arg	Lys	Arg	Arg	Gly	Glu	Glu					
65					70					75					

&lt;210&gt; 164

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 164

Lys	Tyr	Leu	Thr	Leu	Pro	Tyr	Lys	Leu	Leu	Val	Pro	Phe	Cys	Ile	Pro
1				5					10					15	
Pro	Ser	Ile	Thr	Leu	Thr	Lys	Gly	Ile	Phe	Tyr	Cys	Lys	Glu	Tyr	Phe
			20					25					30		
Ile	Leu	Tyr	Ile	Thr	Ser	His	Glu	Phe	Leu	Pro	Leu	Val	Thr	Ile	Gln
		35					40					45			
Met	Leu	Pro	Ser	Ala	Ile	Ile	Gln	Ile	Ala	Gln	Pro	Phe	Tyr	Val	His
	50					55					60				
Asn	Ser	Leu	Leu												
65															

&lt;210&gt; 165

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 165

Leu	Phe	Phe	Leu	Phe	Arg	Tyr	His	Thr	Val	Pro	Leu	Pro	Pro	Lys	Gly
1				5					10					15	
Arg	Val	Leu	Ile	His	Trp	Met	Thr	Leu	Cys	Gln	Thr	Gln	Met	Lys	Leu
			20					25					30		

Met	Ala	Ile	Pro	Leu	Val	Phe	Gln	Ile	Met	Phe	Gly	Ile	Leu	Asn	Gly
		35					40					45			
Leu	Tyr	His	Tyr	Ala	Val	Phe	Glu	Glu	Thr	Leu	Glu	Lys	Thr	Ile	His
	50					55					60				
Glu	Glu														
65															

<210> 166  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 166

Thr	Arg	Leu	Lys	Gly	Asp	Arg	Gly	Gly	Val	His	Phe	Leu	Lys	Ala	Leu
1				5					10					15	
Arg	Arg	Gly	Gly	Leu	Arg	Ala	Ser	Leu	Leu	Tyr	Leu	Leu	Glu	Lys	Tyr
			20					25					30		
Arg	Leu	Val	Phe	Leu	Leu	Ser	Ile	Cys	Val	Arg	Gly	Met	Val	Ser	Ser
		35					40					45			
Val	Lys	Ser	Phe	Leu	Val	Gly	Glu	Gln	Leu	Leu	Ser	Ile	Ser	Glu	Pro
	50					55					60				
Arg	Phe	Lys	Met	Ser	Val	Cys	Lys	Cys	Ser	Phe	Leu	Ser	Thr	Thr	Ser
65					70					75					80
Thr	Phe	Val	Pro	Ile	Ser	Ser	Asp	Ser	Lys	Lys	Val	Ser	Ser	Tyr	Phe
				85					90					95	
Ser	Leu	Cys	Ser	Glu	Ser	Leu	Ala	Glu	Gln	Asn	Leu	Phe	Met	Met	Pro
			100					105					110		
Glu	Val	Phe	Cys	Ser	Glu	Gln	Lys	Phe	Asp	Pro	Glu	Leu	Asn	Asp	Leu
		115					120					125			
Ser	Phe	Phe	Phe	Thr	Arg	Leu	Phe	Ser	Ser	Leu	Val	Thr	Leu	Arg	Val
	130					135					140				
Ser	Pro	His	Ala	Pro	Ala	Ser	Glu	Met	Gln	Thr	Val	Leu	Ser	Ser	
145					150					155					

<210> 167  
 <211> 439  
 <212> PRT  
 <213> Homo sapiens

<400> 167

Lys	Ser	Leu	Leu	Phe	Thr	Ser	Ser	Lys	Phe	Pro	Leu	Ile	Ser	Phe	Ser
1				5					10					15	
Ser	Pro	Gln	Gly	Leu	Lys	Phe	Arg	Ser	Lys	Ser	Ser	Leu	Ala	Asn	Tyr
			20					25					30		
Leu	His	Lys	Asn	Gly	Glu	Thr	Ser	Leu	Lys	Pro	Glu	Asp	Phe	Asp	Phe
		35					40					45			
Thr	Val	Leu	Ser	Lys	Arg	Gly	Ile	Lys	Ser	Arg	Tyr	Lys	Asp	Cys	Ser

	50					55					60				
Met 65	Ala	Ala	Leu	Thr	Ser 70	His	Leu	Gln	Asn	Gln 75	Ser	Asn	Asn	Ser	Asn 80
Trp	Asn	Leu	Arg	Thr 85	Arg	Ser	Lys	Cys	Lys 90	Lys	Asp	Val	Phe	Met 95	Pro
Pro	Ser	Ser	Ser 100	Ser	Glu	Leu	Gln	Glu 105	Ser	Arg	Gly	Leu	Ser 110	Asn	Phe
Thr	Ser	Thr 115	His	Leu	Leu	Leu	Lys 120	Glu	Asp	Glu	Gly	Val 125	Asp	Asp	Val
Asn	Phe 130	Arg	Lys	Val	Arg	Lys 135	Pro	Lys	Gly	Lys	Val 140	Thr	Ile	Leu	Lys
Gly 145	Ile	Pro	Ile	Lys	Lys 150	Thr	Lys	Lys	Gly	Cys 155	Arg	Lys	Ser	Cys	Ser 160
Gly	Phe	Val	Gln	Ser 165	Asp	Ser	Lys	Arg	Glu 170	Ser	Val	Cys	Asn	Lys 175	Ala
Asp	Ala	Glu	Ser 180	Glu	Pro	Val	Ala	Gln 185	Lys	Ser	Gln	Leu	Asp 190	Arg	Thr
Val	Cys	Ile 195	Ser	Asp	Ala	Gly	Ala 200	Cys	Gly	Glu	Thr	Leu 205	Ser	Val	Thr
Ser	Glu 210	Glu	Asn	Ser	Leu	Val 215	Lys	Lys	Lys	Glu	Arg 220	Ser	Leu	Ser	Ser
Gly 225	Ser	Asn	Phe	Cys	Ser 230	Glu	Gln	Lys	Thr	Ser 235	Gly	Ile	Ile	Asn	Lys 240
Phe	Cys	Ser	Ala	Lys 245	Asp	Ser	Glu	His	Asn 250	Glu	Lys	Tyr	Glu	Asp 255	Thr
Phe	Leu	Glu	Ser 260	Glu	Glu	Ile	Gly	Thr 265	Lys	Val	Glu	Val	Val 270	Glu	Arg
Lys	Glu	His 275	Leu	His	Thr	Asp	Ile 280	Leu	Lys	Arg	Gly	Ser 285	Glu	Met	Asp
Asn	Asn 290	Cys	Ser	Pro	Thr	Arg 295	Lys	Asp	Phe	Thr	Glu 300	Asp	Thr	Ile	Pro
Arg 305	Thr	Gln	Ile	Glu	Arg 310	Arg	Lys	Thr	Ser	Leu 315	Tyr	Phe	Ser	Ser	Lys 320
Tyr	Asn	Lys	Glu	Ala 325	Leu	Ser	Pro	Pro	Arg 330	Arg	Lys	Ala	Phe	Lys 335	Lys
Trp	Thr	Pro	Pro 340	Arg	Ser	Pro	Phe	Asn 345	Leu	Val	Gln	Glu	Thr 350	Leu	Phe
His	Asp	Pro 355	Trp	Lys	Leu	Leu	Ile 360	Ala	Thr	Ile	Phe	Leu 365	Asn	Arg	Thr
Ser	Gly 370	Lys	Met	Ala	Ile	Pro 375	Val	Leu	Trp	Lys	Phe 380	Leu	Glu	Lys	Tyr
Pro	Ser	Ala	Glu	Val	Ala	Arg	Thr	Ala	Asp	Trp	Arg	Asp	Val	Ser	Glu

Downloaded from www.jstor.org

<400> 168

<400> 169

```
<210> 170
<211> 91
```

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 170

Ala	Asp	Ser	His	Gln	Asn	Tyr	Ile	Pro	Trp	Pro	Pro	Ala	Cys	Val	Leu
1				5					10					15	
Leu	Ala	Arg	Pro	Trp	Leu	Ala	Ser	Leu	Thr	Arg	Glu	Lys	Asp	Leu	Gln
			20					25					30		
Lys	Ile	Arg	Leu	Trp	Asp	His	Phe	Val	Cys	Ala	Leu	Gly	Met	Thr	Phe
		35					40					45			
Phe	Pro	Thr	Pro	Gly	Lys	Pro	Leu	Gly	Leu	Ser	Glu	Thr	Leu	Trp	Leu
	50					55					60				
Ala	Asn	His	Met	Val	Ser	Leu	Lys	Val	Glu	Arg	Leu	Ser	Asn	Pro	Pro
65					70					75					80
Ile	Pro	Arg	Glu	Phe	Gln	Ser	Val	Asp	Val	Ile					
				85					90						

&lt;210&gt; 171

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 171

Asn	Gly	Gly	Leu	Asn	Ala	His	Leu	Ala	Ser	Ala	Ser	Glu	Phe	Asp	His
1				5					10					15	
Ser	Gly	Val	Gln	Leu	Ile	Glu	Arg	Glu	Glu	Glu	Ile	Cys	Ile	Phe	Tyr
			20					25					30		
Glu	Lys	Ile	Asn	Ile	Gln	Glu	Lys	Met	Lys	Leu	Asn	Gly	Glu	Ile	Glu
		35					40					45			
Ile	His	Leu	Leu	Glu	Glu	Lys	Ile	Gln	Phe	Leu	Lys	Met	Lys	Ile	Ala
	50					55					60				
Glu	Lys	Gln	Arg	Gln	Ile	Cys	Val	Thr	Gln	Lys	Leu	Leu	Pro	Ala	Lys
65					70					75					80
Arg	Ser	Leu	Asp	Ala	Asp	Leu	Ala	Val	Leu	Gln	Ile	Gln	Phe	Ser	
				85					90					95	

&lt;210&gt; 172

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 172

Lys	Thr	Glu	Phe	Gly	Ala	Gln	Leu	Gly	Arg	His	Pro	Gly	Thr	Ser	Trp
1				5					10					15	
Leu	Ala	Val	Ile	Ser	Gly	Ser	His	Lys	Phe	Val	Phe	Ala	Ser	Gln	Gln
			20					25					30		
Ser	Ser	Phe	Ser	Gly	Ile	Gly	Ser	Phe	Leu	Pro	Val	Asp	Val	Phe	Gln
		35					40					45			

Phe	Leu	His	Leu	Val	Ser	Ser	Ser	Leu	Gly	Tyr	Leu	Phe	Phe	His	Lys
	50					55					60				
Lys	Cys	Ile	Phe	Leu	Leu	Pro	Ala	Leu	Ser	Ala	Glu	Arg	His	Tyr	Gly
65					70					75					80
Gln	Ile	Gln	Arg	Gln	Arg	Leu	Ser	Gly	His						
				85					90						

<210> 173  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 173

Ala	Val	Arg	Ser	Arg	Gly	Ala	Leu	Ser	Leu	Ser	Val	Gly	Ala	Ala	Cys
1				5					10					15	
Gly	Leu	Val	Ala	Leu	Trp	Gln	Arg	Arg	Arg	Gln	Asp	Ser	Gly	Thr	Met
			20					25					30		
Ser	Gly	Phe	Ser	Thr	Glu	Glu	Arg	Ala	Ala	Pro	Phe	Ser	Leu	Glu	Tyr
		35					40					45			
Arg	Val	Phe	Leu	Lys	Asn	Glu	Lys	Gly	Gln	Tyr	Ile	Ser	Pro	Phe	His
	50					55					60				
Asp	Ile	Pro	Ile	Tyr	Ala	Asp	Lys	Val	Arg	His	Pro	Cys	Phe	Trp	Thr
65					70					75					80
Gln	Ser	Leu	Tyr	Ser	Asp	Gln	Leu	Val	Leu	His	Met	Asn	Phe	Leu	Ile
				85					90					95	
Cys	Leu	Ser	Thr	Ser	Ala										
			100												

<210> 174  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 174

Val	Lys	Arg	Leu	Cys	Pro	Lys	Thr	Arg	Met	Pro	Tyr	Leu	Ile	Cys	Ile
1				5					10					15	
Asn	Trp	Asn	Ile	Met	Lys	Trp	Arg	Tyr	Ile	Leu	Ser	Phe	Leu	Ile	Phe
			20					25					30		
Glu	Glu	Asp	Ser	Val	Leu	Gln	Gly	Glu	Gly	Arg	Gly	Ala	Leu	Leu	Gly
		35					40					45			
Ala	Glu	Ala	Ala	His	Ser	Ala	Gly	Val	Leu	Pro	Pro	Pro	Leu	Pro	Gln
	50					55					60				
Ser	His	Gln	Pro	Ala	Arg	Gly	Ala	Asp							
65					70										

<210> 175  
 <211> 130  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 175

Arg 1	Arg	Gln	Arg	Lys 5	Ala	Glu	Pro	Gly	Ala 10	Cys	Ala	Leu	Gly	Arg 15	Val
Gly	Ser	Glu	Cys 20	Ile	Pro	Glu	Pro	Gly 25	Ala	Arg	Arg	Thr	Ala 30	Gln	Ala
Ala	Gly	Leu 35	Arg	Ser	Val	Ser	Gly 40	Ala	Ala	Asn	Thr	Lys 45	Val	Arg	Glu
Leu	Lys 50	His	Phe	Arg	Phe	Leu 55	Gly	Leu	Leu	Arg	Ser 60	Cys	Arg	Ser	Glu
Met 65	Glu	Val	Asp	Ala	Pro 70	Gly	Val	Asp	Gly	Arg 75	Asp	Gly	Leu	Arg	Glu 80
Arg	Arg	Gly	Phe	Ser 85	Glu	Gly	Gly	Arg	Gln 90	Asn	Phe	Asp	Val	Arg 95	Pro
Gln	Ser	Gly	Ala 100	Asn	Gly	Leu	Pro	Lys 105	His	Ser	Tyr	Trp	Leu 110	Asp	Leu
Trp	Leu	Phe 115	Ile	Leu	Phe	Asp	Val 120	Val	Val	Phe	Leu	Phe 125	Val	Tyr	Phe
Leu	Pro 130														

&lt;210&gt; 176

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 176

Ile 1	Leu	Lys	Met	Ala 5	Thr	Asn	Phe	Leu	Asn 10	Lys	Glu	Asp	Arg	Thr 15	Leu
Asn	Arg	Arg	Ile 20	Ser	His	Leu	Gln	Gly 25	Thr	Leu	Pro	Phe	Ile 30	Leu	His
Phe	Val	Thr 35	Asn	Leu	Gln	Asn	Ser 40	Ile	Asn	Trp	Val	Gly 45	Phe	His	Pro
Phe	Leu 50	Ala	Lys	Phe	Leu	Lys 55	Leu	Asn	Pro	Leu	Val 60	Arg	Val		

&lt;210&gt; 177

&lt;211&gt; 174

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 177

Ala 1	Val	Tyr	Cys	Ile 5	Leu	His	Gln	Gln	Lys 10	Val	Leu	Arg	Leu	Tyr 15	Lys
Arg	Ala	Leu	Arg 20	His	Leu	Glu	Ser	Trp 25	Cys	Val	Gln	Arg	Asp 30	Lys	Tyr



Arg	Tyr	Phe 35	Ala	Cys	Leu	Met	Arg 40	Ala	Arg	Phe	Glu	Glu 45	His	Lys	Asn
Glu	Lys 50	Asp	Met	Ala	Lys	Ala 55	Thr	Gln	Leu	Leu	Lys 60	Glu	Ala	Glu	Glu
Glu 65	Phe	Trp	Tyr	Arg	Gln 70	His	Pro	Gln	Pro	Tyr 75	Ile	Phe	Pro	Asp	Ser 80
Pro	Gly	Gly	Thr	Ser 85	Tyr	Glu	Arg	Tyr	Asp 90	Cys	Tyr	Lys	Val	Pro 95	Glu
Trp	Cys	Leu	Asp 100	Asp	Trp	His	Pro	Ser 105	Glu	Lys	Ala	Met	Tyr 110	Pro	Asp
Tyr	Phe	Ala 115	Lys	Arg	Glu	Gln	Trp 120	Lys	Lys	Leu	Arg	Arg 125	Glu	Ser	Trp
Glu	Arg 130	Glu	Val	Lys	Gln	Leu 135	Gln	Glu	Glu	Thr	Pro 140	Pro	Gly	Gly	Pro
Leu 145	Thr	Glu	Ala	Leu	Pro 150	Pro	Ala	Arg	Lys	Glu 155	Gly	Asp	Leu	Pro	Pro 160
Leu	Trp	Trp	Tyr	Ile 165	Val	Thr	Arg	Pro	Arg 170	Glu	Arg	Pro	Met		

&lt;210&gt; 178

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 178

Pro 1	Leu	Val	Pro	Ser 5	Phe	Pro	Ser	Ala	Val 10	Ser	Ser	Thr	Val	Leu 15	Ser
Trp	Gln	Ser	Asn 20	Gln	Asp	Thr	Leu	Pro 25	Ser	Gln	Lys	Asp	Ala 30	Ser	His
Leu	Ser	Thr 35	Ile	Leu	Gly	Pro	Cys 40	Ser	Asn	Arg	Ile	Ser 45	His	Arg	Arg
Cys	Pro 50	Gln	Glu	Ser	Gln	Gly 55	Arg	Cys	Met	Ala	Val 60	Asp	Ala	Asp	Gly
Thr 65	Arg	Ile	Leu	Pro	Arg 70	Pro	Pro	Ser	Ala	Ala 75	Gly	Trp	Pro	Ser	Pro 80
Tyr	Pro	Phe	His	Ser 85	Tyr	Val	Leu	Gln	Thr 90	Gly	Leu	Ser	Ser	Asn 95	Lys
Gln	Ser	Ile	Gly 100	Ile	Cys	Leu	Ser	Gly 105	Arg	Thr	Thr	Thr	Arg 110	Gly	Gly
Val	Ala	Pro 115	Ala	Tyr	Lys	Ala	Ala 120	Thr	Pro	Phe	Ala	Asp 125	Val	Val	Cys
Asn	Ile 130	Arg													

&lt;210&gt; 179

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 179

Leu 1	Met	Met	Thr	Ile 5	Tyr	Ala	Leu	Ser	Asn 10	Glu	Phe	Ala	Phe	Lys 15	Ile
Asn	Glu	Glu	Gln 20	Leu	Ser	Phe	Phe	Pro 25	Leu	Leu	Ser	Val	Gln 30	Leu	Trp
His	Ala	Gln 35	Arg	Phe	Leu	Leu	Asp 40	Ser	Ser	Trp	Ser	Gly 45	Val	Ile	Pro
Phe	Phe 50	Phe	Ser	Cys	Ser	Cys 55	Leu	Pro	Phe	Leu	Tyr 60	Pro	Pro	Lys	Trp
Arg 65	Gln	Ile	His	Asp	Leu 70	Lys	Asp	Thr	Gln	Tyr 75	Leu	Leu	Asn	Ser	Ser 80

&lt;210&gt; 180

&lt;211&gt; 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 180

Lys 1	Val	Leu	Arg	Lys 5	Leu	Lys	Gly	Pro	Glu 10	Glu	Ala	Ser	Gly	Gln 15	Met
Ala	Gly	Ala	Gly 20	Pro	Thr	Met	Leu	Leu 25	Arg	Glu	Glu	Asn	Gly 30	Cys	Cys
Ser	Arg	Arg 35	Gln	Ser	Ser	Ser	Ser 40	Ala	Gly	Asp	Ser	Asp 45	Gly	Glu	Arg
Glu	Asp 50	Ser	Ala	Ala	Glu	Arg 55	Ala	Arg	Gln	Gln	Leu 60	Glu	Ala	Leu	Leu
Asn 65	Lys	Thr	Met	Arg	Ile 70	Arg	Met	Thr	Asp	Gly 75	Arg	Thr	Leu	Val	Gly 80
Cys	Phe	Leu	Cys	Thr 85	Asp	Arg	Asp	Cys	Asn 90	Val	Ile	Leu	Gly	Ser 95	Ala
Gln	Glu	Phe	Leu 100	Lys	Pro	Ser	Asp	Ser 105	Phe	Ser	Ala	Gly	Glu 110	Pro	Arg
Val	Leu	Gly 115	Leu	Ala	Met	Val	Pro 120	Gly	His	His	Ile	Val 125	Ser	Ile	Glu
Val	Gln 130	Arg	Glu	Ser	Leu	Thr 135	Gly	Pro	Pro	Tyr	Leu 140				

&lt;210&gt; 181

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 181

Ser 1	Leu	Lys	Gly	Lys 5	Arg	His	Arg	Gly	Gln 10	Arg	Tyr	Gly	Gly	Pro 15	Val
----------	-----	-----	-----	----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Arg	Leu	Ser	Leu 20	Cys	Thr	Ser	Met	Glu 25	Thr	Met	Trp	Cys	Pro 30	Gly	Thr
Met	Ala	Arg 35	Pro	Ser	Thr	Arg	Gly 40	Ser	Pro	Ala	Glu	Lys 45	Glu	Ser	Asp
Gly	Leu 50	Arg	Asn	Ser	Cys	Ala 55	Glu	Pro	Arg	Met	Thr 60	Leu	Gln	Ser	Arg
Ser 65	Val	Gln	Arg	Lys	Gln 70	Pro	Thr	Ser	Val	Arg 75	Pro	Ser	Val	Met	Arg 80
Met	Arg	Ile	Val	Leu 85	Leu	Ser	Ser	Ala	Ser 90	Ser	Cys	Cys	Arg	Ala 95	Arg
Ser	Ala	Ala	Glu 100	Ser	Ser	Arg	Ser	Pro 105	Ser	Glu	Ser	Pro	Ala 110	Leu	Glu

Leu Leu

<210> 182  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 182

Arg 1	Leu	Ser	Arg	Leu 5	Thr	Glu	Pro	Lys	Glu 10	Asp	Pro	Met	Ala	Gly 15	Ile
Ser	Thr	Ala	Glu 20	His	His	Leu	Asp 25	Pro	Thr	Ala	Ala	Leu	Pro 30	Thr	Gln
Leu	Ser	Arg 35	Ser	Arg	His	Ser	Pro 40	Gln	Val	Ile	Ser	Thr 45	Asp	Gly	Gly
Glu	Thr 50	Arg	Gly	Cys	Gly	Arg 55	Gln	Glu	Arg	Lys	Ala 60	Glu	Arg	Arg	Val
Cys 65	Lys	Asn	Ala	Lys	Val 70	Thr	Phe	Pro	Ile	Val 75	Gly	Gly	Lys	Cys	Gln 80
Arg	His	Trp	Phe	Cys 85	Cys	His	Arg	Gln	Ser 90	Glu	His	Leu	Glu	Leu 95	

<210> 183  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 183

Arg 1	Arg	Val	Gln	His 5	Pro	Pro	Phe	Phe	Ser 10	Gln	Leu	Ile	Arg	Asp 15	Ala
Ala	Lys	Arg	Thr 20	Phe	Arg	Ile	Thr	Arg 25	Leu	Gln	Ala	Phe	Ser 30	Lys	Tyr
Leu	Val	Val 35	Tyr	Val	Tyr	Leu	Asn 40	Gly	Ser	Met	Leu	Pro 45	Val	Pro	Ser
Pro	Cys	Pro	Leu	Cys	Gln	Pro	Pro	Val	Ala	Leu	Val	Leu	Val	Ser	Phe

50						55					60				
Pro 65	Ser	Ser	Ala	Lys	Arg 70	Pro	Trp	Asn	Leu	Asn 75	Gly	Gly	Cys	Phe	Ala 80
Leu	Gly	Gly	Ser	Cys 85	Trp	Trp	Asp	Gln	Ser 90	Phe	Asp	Lys	Pro	Pro 95	Ala
Pro	Trp	Trp	His 100	Leu	Ser	Trp	Lys	Asp 105	Val	Thr	Thr	Pro	Gly 110	Ala	Gln
Thr	Ala	Cys 115	Gly	Ser	Arg	Thr	Ser 120	Ala	Phe	Gly	Ile	Phe 125	Leu	Pro	Gln
Trp	Gly 130	Arg													

<210> 184  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<400> 184

Thr 1	Ala	Pro	Cys	Cys 5	Arg	Cys	Pro	Ala	Pro 10	Val	Pro	Ser	Val	Asn 15	Pro
Leu	Ser	Leu	Trp 20	Cys	Trp	Phe	Arg	Ser 25	Arg	Leu	Gln	Gln	Asn 30	Asp	Leu
Gly	Thr	Ser 35	Met	Gly	Ala	Ala	Leu 40	Leu	Trp	Glu	Val	Leu 45	Val	Gly	Gly
Thr	Arg 50	Ala	Leu	Thr	Asn	Leu 55	Leu	Leu	Leu	Gly	Gly 60	Thr	Ser	Pro	Gly
Arg 65	Thr	Ser	Gln	Leu	Gln 70	Val	Leu	Arg	Leu	Pro 75	Val	Ala	Ala	Glu	Pro 80
Val	Pro	Leu	Ala	Phe 85	Ser	Ser	His	Asn	Gly 90	Glu	Gly	Asp	Phe	Gly 95	Ile
Leu	Thr	Asn	Ser 100	Ser	Leu	Gly	Leu	Ser 105	Leu	Leu	Pro	Ser	Thr 110	Ala	Ser
Arg	Phe	Ser 115	Ser	Ile	Cys	Ala	Tyr 120	Tyr	Leu	Arg	Thr	Val 125	Ser	Ala	Pro

<210> 185  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 185

Asp 1	Ser	Arg	Val	Tyr 5	Cys	Phe	Ser	Gly	Asn 10	Tyr	Arg	Lys	Leu	Val 15	Leu
Pro	Arg	Lys	Thr 20	Gly	Ala	Ile	Arg	Asn 25	Gly	Ser	Asn	Ile	Ser 30	Lys	Leu
Arg	Lys	Gln 35	Asp	Val	Leu	Ser	Phe 40	Ala	His	Leu	Gly	Phe 45	Leu	Leu	Phe

Pro	Phe	Ser	Leu	Phe	Ser	Leu	Arg	Ser	Leu	Phe	Gln	Phe	Pro	Ser	Asp
	50					55					60				
Leu	Pro	Leu	Val	Pro	Leu	Glu	Ser	Gln	Arg	Leu					
65					70					75					

<210> 186  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 186

Leu	Gly	Asp	Ser	Glu	Ser	Met	Pro	Leu	Leu	Ala	Leu	Lys	Cys	Pro	Val
1				5					10					15	
Arg	Leu	Leu	Gly	Thr	Leu	Glu	Pro	Ser	Glu	Ile	Leu	Ile	Ile	Leu	Gly
			20					25					30		
Ser	Ser	Pro	Tyr	Phe	Gln	Met	Phe	Ser	Ala	Gln	His	Trp	Val	Leu	Ser
		35					40					45			
Ser	Thr	Thr	Glu	Asn	Pro	Glu	Glu	Lys	Gly	Arg	Cys	Phe	Pro		
	50					55					60				

<210> 187  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 187

Pro	His	Pro	Ser	Arg	Arg	Leu	Thr	Gln	Gly	Arg	Trp	Val	Arg	Lys	Ser
1				5					10					15	
Arg	Val	Ala	Met	Glu	Lys	Ile	Pro	Val	Ser	Ala	Phe	Leu	Arg	Leu	Val
			20					25					30		
Ala	Leu	Ser	Tyr	Asn	Leu	Ala	Arg	Asp	Ser	Thr	Val	Lys	Pro	Gly	Ala
		35					40					45			
Lys	Lys	Asp	Arg	Lys	Glu	Ser	Arg	Ala	Lys	Leu	Arg	Gln	Thr	Leu	Ser
	50					55					60				
Arg	Ser	Trp	Gly	Glu	Gln	Leu	Ile	Trp	Thr	Gln	Thr	Tyr	Glu	Glu	Ala
65					70					75					80
Leu	Tyr	Lys	Ser	Arg	Leu	Ala	Thr	Asn							
				85											

<210> 188  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 188

Gly	Asn	Pro	Glu	Leu	Pro	Trp	Arg	Lys	Phe	Gln	Cys	Gln	His	Ser	Cys
1				5					10					15	
Ala	Leu	Trp	Arg	Ser	Pro	Thr	Ile	Trp	Pro	Gly	Ile	Ala	Gln	Ser	Asn
			20					25					30		

Leu	Glu	Pro 35	Lys	Arg	Thr	Gly	Arg 40	Ser	Leu	Glu	Pro	Asn 45	Cys	Ala	Arg	
Pro	Ser 50	Pro	Glu	Val	Gly	Val 55	Asn	Asn	Ser	Ser	Gly 60	Leu	Arg	Arg	Met	
Lys 65	Lys	Leu	Tyr	Ile	Asn 70	Arg	Asp									

<210> 189  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 189

Ser 1	Leu	Gly	His	Arg 5	Pro	Arg	Asn	Gly	Gly 10	His	Ser	Arg	Gly	Cys 15	Asp	
Leu	Gly	Gly	Leu 20	His	Ala	His	Ser	Pro 25	Asp	Pro	Arg	Leu	Gln 30	Gly	Ala	
Gly	Leu	Gln 35	Gln	Ala	Lys	Asn	Ala 40	Ala	Tyr	Ser	Val	Ser 45	Leu	Pro	Pro	
Gly	Cys 50	Val	Gly	His	Leu	Trp 55	Pro	His	Leu	Arg	Leu 60	His	His	Arg	Thr	
Gly 65	Arg	Glu	His	Arg	Ala 70	His	Thr	Leu	Leu	Pro 75	Leu	Trp	Asp	Pro	Leu 80	
Phe	His	Leu	Leu	Leu 85	Leu	Pro	Ala	Gly	Ser 90	Cys	Cys	Gln	Ser	Asp 95	Gln	
Ala	Arg	Pro	Gly 100	Glu	Glu	Ala	Pro	Phe 105	Pro	Val	Gly	Asp	Ser 110	Gly	Ser	
Gly	Arg	Gly 115	Leu	Gln	Pro	Ser	Pro 120	Gly	Cys	Tyr	Arg	Tyr 125				

<210> 190  
 <211> 200  
 <212> PRT  
 <213> Homo sapiens

<400> 190

Arg 1	Gly	Arg	Asp	Ser 5	Cys	Pro	Arg	Ser	Pro 10	Pro	Ala	Leu	Arg	Ser 15	Ser	
Pro	Ala	Ala	Leu 20	Leu	Arg	Ala	Gly	Ser 25	Ser	Thr	Lys	Phe	Thr 30	Ala	Asn	
Ala	Leu	Ala 35	Leu	Gly	Ser	Arg	Met 40	Ala	Thr	Thr	Val	Pro 45	Asp	Gly	Cys	
Arg	Asn 50	Gly	Leu	Lys	Ser	Lys 55	Tyr	Tyr	Arg	Leu	Cys 60	Asp	Lys	Ala	Glu	
Ala 65	Trp	Gly	Ile	Val	Leu 70	Glu	Thr	Val	Ala	Thr 75	Ala	Gly	Val	Val	Thr 80	

Ser	Val	Ala	Phe	Met 85	Leu	Thr	Leu	Pro	Ile 90	Leu	Val	Cys	Lys	Val 95	Gln
Asp	Ser	Asn	Arg 100	Arg	Lys	Met	Leu	Pro 105	Thr	Gln	Phe	Leu	Phe 110	Leu	Leu
Gly	Val	Leu 115	Gly	Ile	Phe	Gly	Leu 120	Thr	Phe	Ala	Phe	Ile 125	Ile	Gly	Leu
Asp	Gly 130	Ser	Thr	Gly	Pro	Thr 135	Arg	Phe	Phe	Leu	Phe 140	Gly	Ile	Leu	Phe
Ser 145	Ile	Cys	Phe	Ser	Cys 150	Leu	Leu	Ala	His	Ala 155	Val	Ser	Leu	Thr	Lys 160
Leu	Val	Arg	Gly	Arg 165	Lys	Pro	Leu	Ser	Arg 170	Leu	Val	Ile	Leu	Gly 175	Leu
Ala	Val	Gly	Phe 180	Ser	Leu	Val	Gln	Asp 185	Val	Ile	Ala	Ile	Glu 190	Tyr	Ile
Val	Leu	Thr 195	Met	Asn	Arg	Thr	Lys 200								

&lt;210&gt; 191

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 191

Ala 1	Glu	Ala	His	Gly 5	Gln	Thr	Gln	Asn	His 10	Gln	Pro	Gly	Lys	Gly 15	Leu
Pro	Pro	Pro	Asp 20	Glu	Leu	Gly	Gln	Thr 25	Asp	Ser	Met	Ser	Gln 30	Gln	Ala
Gly	Glu	Ala 35	Asp	Gly	Lys	Glu	Asp 40	Pro	Lys	Glu	Glu	Glu 45	Ala	Cys	Gly
Pro	Cys 50	Ala	Pro	Val	Gln	Ser 55	Asp	Asp	Glu	Gly	Glu 60	Gly	Glu	Ala	Lys
Asp 65	Ala	Gln	His	Thr	Gln 70	Glu	Glu	Glu	Lys	Leu 75	Ser	Arg	Gln	His	Phe 80
Ser	Pro	Val	Gly	Val 85	Leu	His	Leu	Ala	Asp 90	Glu	Asp	Arg	Glu	Ser 95	Glu
His	Glu	Gly	His 100	Arg	Gly	His	Asn	Pro 105	Gly	Cys	Gly	His	Arg 110	Phe	

&lt;210&gt; 192

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 192

Glu 1	Ile	Tyr	Trp	Glu 5	Thr	Asp	Tyr	Asn	His 10	Ser	Gly	Thr	Ile	Asp 15	Ala
His	Glu	Met	Arg	Thr	Ala	Leu	Arg	Lys	Ala	Gly	Phe	Thr	Leu	Asn	Ser

			20					25					30			
Gln	Val	Gln	Gln	Thr	Ile	Ala	Leu	Arg	Tyr	Ala	Cys	Ser	Lys	Leu	Gly	
		35					40					45				
Ile	Asn	Phe	Asp	Ser	Phe	Val	Ala	Cys	Met	Ile	Arg	Leu	Glu	Thr	Leu	
	50					55					60					
Phe	Lys	Leu	Phe	Ser	Leu	Leu	Asp	Glu	Asp	Lys	Asp	Gly	Met	Val	Gln	
65					70					75					80	
Leu	Ser	Leu	Ala	Glu	Trp	Leu	Cys	Cys	Val	Leu	Val					
				85					90							

<210> 193  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 193

Glu	Ser	Leu	Ile	Ala	Phe	Leu	Phe	Leu	His	Asp	Gln	Cys	Ala	Gln	Asp	
1				5					10					15		
Ser	Ile	Val	Leu	Thr	Met	Ile	Lys	Asp	Val	Val	Arg	Ile	Gln	Trp	Thr	
			20					25					30			
Arg	Asn	Glu	Cys	Lys	Gly	Gly	Leu	Glu	Gln	Arg	Arg	Gly	Cys	Pro	Glu	
		35					40					45				
Gly	Lys	Glu	Ser	Tyr	Gln	Ile	Leu	Leu	Asn	Leu	Gln	Pro	Glu	Arg	Leu	
	50					55					60					
Glu	Phe	His	Arg	Pro	Gln	Ser	Ala	Pro	Phe	His	Cys	Ser	Arg	His	Ile	
65					70					75					80	

Lys

<210> 194  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 194

Lys	Thr	Thr	Ile	His	Gly	Pro	Cys	Gln	Asn	His	Leu	Pro	Pro	Pro	His	
1				5					10					15		
Cys	Phe	Leu	Lys	Arg	Pro	Gly	Thr	Leu	Ser	Lys	Gly	Asp	Pro	Ile	Asp	
			20					25					30			
Ser	Ser	Gln	Glu	Gly	Phe	Arg	Ala	Ser	Ile	Arg	Ala	Trp	Pro	Val	Leu	
		35					40					45				
Ala	Pro	Leu	Leu	Ser	Glu	Gln	Gln	Gly	Phe	Gln	Gly	Ser	Gly	Trp	His	
	50					55					60					
Glu	Ser	Leu	Ser	Leu	Pro	Ser	Cys	Ser	Phe	Met	Thr	Asn	Val	Pro	Arg	
65					70					75					80	

Thr Gln

<210> 195



<211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 195

Arg	Pro	Pro	Pro	Ser	Ser	Arg	Ser	Ser	Leu	Ala	Gly	Gln	Thr	Asn	Thr
1				5					10					15	
Gln	His	Ser	His	Ser	Ala	Arg	Glu	Ser							
			20					25							

<210> 196  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 196

Thr	Met	Pro	Ser	Leu	Ser	Ser	Ser	Arg	Arg	Leu	Asn	Ser	Leu	Lys	Arg
1				5					10					15	
Val	Ser	Arg	Arg	Ile	Ile	Gln	Ala	Thr	Lys	Leu	Ser	Lys	Leu	Met	Pro
			20					25					30		
Ser	Leu	Leu	His	Ala	Tyr	Arg	Arg	Ala	Met	Val	Cys	Cys	Thr	Trp	Leu
		35					40					45			
Leu	Arg	Val	Lys	Pro	Ala	Phe	Leu	Arg	Ala	Val	Leu	Ile	Ser	Trp	Ala
	50					55					60				
Ser	Met	Val	Pro	Glu	Trp	Leu									
65					70										

<210> 197  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 197

Ile	Arg	Arg	Asn	Thr	Ser	Arg	Ile	Ser	Val	His	Thr	Trp	Arg	Arg	Thr
1				5					10					15	
Pro	Pro	Tyr	Asp	Ser	Pro	Ala	Cys	Phe	Ser	Cys	Ser	Ile	Val	Ser	Leu
			20					25					30		
Glu	Gly	Ser	Gly	Phe	Phe	Ser	Cys	Val	Ser	Val	Phe	Phe	Ser	Phe	Asp
		35					40					45			
Leu	Ser	Asn	Phe	Ser	Ile	Ser	Ala	Ile	Ser	Gly	Leu	Ser	Asp	Met	Val
	50					55					60				
Ala	Glu	Glu	Lys	Gln	Ser	Glu	Ala	His	Glu	Tyr	Glu	Arg	Gln	Phe	Leu
65					70					75					80
Ala	Ser	Arg	Arg	Ser	Gly										
				85											

<210> 198  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 198

His 1	Pro	Phe	Ser	Thr 5	Phe	Pro	Thr	Leu	Pro 10	Pro	Gln	Ala	Gly	Lys 15	Phe
Asp	Ala	Thr	Leu 20	Leu	Ala	Ser	Gln	Cys 25	Ile	Leu	Gly	Gly	Ala 30	Arg	Leu
Leu	Thr	Ile 35	Arg	Leu	Leu	Ala	Ser 40	Pro	Val	Gln	Ser	Phe 45	Leu	Trp	Lys
Ala	Val 50	Asp	Phe	Ser	Leu	Ala 55	Ser	Leu	Ser	Ser	Ser 60	Val	Ser	Thr	Tyr
Arg 65	Ile	Ser	Arg	Ser	Gln 70	Pro	Tyr	Arg	Val	Cys 75	Gln	Thr	Trp	Leu	Arg 80
Arg	Lys	Ser	Lys	Ala 85	Arg	Arg	Thr	Ser	Thr 90	Ser	Asp	Ser	Ser	Ser 95	Arg
Leu	Ala	Ala	Val 100	Ala											

&lt;210&gt; 199

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 199

Thr 1	Pro	Phe	Pro	Pro 5	Ser	Gln	Leu	Tyr	Pro 10	Leu	Lys	Gln	Val	Asn 15	Ser
Thr	Gln	His	Phe 20	Ser	His	Leu	Ser	Ala 25	Tyr	Leu	Ala	Ala	His 30	Ala	Ser
Leu	Arg	Phe 35	Ala	Cys	Leu	Leu	Leu 40	Leu	Phe	Asn	Arg	Phe 45	Phe	Gly	Arg
Gln	Trp 50	Ile	Phe	Leu	Leu	Arg 55	Leu	Cys	Leu	Leu	Gln 60	Phe	Arg	Leu	Ile
Glu 65	Phe	Leu	Asp	Leu	Ser 70	His	Ile	Gly	Phe	Val 75	Arg	His	Gly	Cys	Gly 80
Gly	Lys	Ala	Lys	Arg 85	Gly	Ala	Arg	Val	Arg 90	Ala	Thr	Val	Pro	Arg 95	Val
Ser	Pro	Gln	Trp 100												

&lt;210&gt; 200

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 200

Gly 1	Leu	Thr	Asp	Gln 5	Tyr	Leu	Glu	Leu	Asn 10	Ala	Leu	Gln	Glu	Glu 15	Leu
Gly	Pro	Phe	Gly	Leu	Val	Ile	Leu	Gly	Phe	Pro	Ser	Asn	Gln	Phe	Gly

20							25					30				
Lys	Gln	Glu 35	Pro	Gly	Glu	Asn	Ser 40	Glu	Ile	Leu	Pro	Ser 45	Leu	Lys	Tyr	
Val	Arg 50	Pro	Gly	Gly	Gly	Phe 55	Val	Pro	Asn	Phe	Gln 60	Leu	Phe	Glu	Lys	
Gly 65	Asp	Val	Asn	Gly	Glu 70	Lys	Glu	Gln	Lys	Phe 75	Tyr	Thr	Phe	Leu	Lys 80	
Asn	Ser	Cys	Pro	Pro 85	Thr	Ala	Glu	Leu	Leu 90	Gly	Ser	Pro	Gly	Arg 95	Leu	
Phe	Trp	Glu	Pro 100	Met	Lys	Ile	His	Asp 105	Ile	Arg	Trp	Asn	Phe 110	Glu	Lys	
Phe	Leu	Val 115	Gly	Pro	Asp	Gly	Ile 120	Pro	Val	Met	Arg	Trp 125	Tyr	His	Arg	
Thr	Thr 130	Val	Ser	Asn	Val	Lys 135	Met	Asp	Ile	Leu	Ser 140	Tyr	Met	Arg	Arg	
Gln 145	Ala	Ala	Leu	Ser	Ala 150	Arg	Gly	Lys								
<210> 201																
<211> 249																
<212> PRT																
<213> Homo sapiens																
<400> 201																
Leu 1	Met	Pro	Pro	Pro 5	Tyr	Pro	Tyr	Pro	Leu 10	Pro	Ile	Met	Gln	Gly 15	Pro	
Arg	Arg	Gly	Ser 20	Ser	Gly	Arg	Lys	Pro 25	His	Ser	Gln	Ser	Phe 30	Tyr	Pro	
His	Pro	Arg 35	Phe	Ser	Phe	Leu	Leu 40	His	Lys	Arg	Gln	Ala 45	Trp	His	Asn	
Cys	Val 50	Ser	Glu	Pro	Leu	Trp 55	Thr	Arg	Asp	Asn	Cys 60	Pro	Ser	Val	Cys	
Met 65	Ala	Thr	Gln	Pro	Arg 70	Ile	Cys	Leu	Leu	Glu 75	Thr	Gln	Gly	Trp	Ser 80	
Ile	Cys	Val	Tyr	Gly 85	Leu	Ala	Gln	His	Pro 90	His	Ile	Phe	Phe	Ser 95	Phe	
Leu	Phe	Gln	Met 100	Ser	Pro	Lys	Glu	Thr 105	Gln	Val	Leu	Gly	Pro 110	Met	Val	
Leu	Leu	Lys 115	Pro	Glu	His	His	Ser 120	Trp	Gly	Gln	His	Leu 125	Pro	His	Ala	
His	Thr 130	Thr	His	His	Gln	Pro 135	Pro	Ser	Ser	Phe	Leu 140	Lys	Asp	Pro	Pro	
Glu 145	Pro	Pro	Ser	Pro	Ser 150	His	Ser	Ala	Pro	Glu 155	Thr	Ser	Gln	Asp	Asn 160	

Cys	Glu	Arg	Asp	Gly 165	Arg	Val	Pro	Gln	Val 170	Arg	Gly	Gly	Val	Ser 175	Met
Lys	Glu	Gly	Pro 180	Glu	Ala	Leu	Val	Gly 185	Gly	Pro	Pro	Leu	Ser 190	Pro	Ser
Val	Val	Pro 195	Ala	Leu	Ser	Ala	Phe 200	Arg	Leu	Arg	Leu	Pro 205	Gly	Arg	Asp
Thr	Thr 210	Pro	Ala	Pro	Leu	Glu 215	Asp	Met	Leu	Ser	Ser 220	His	Ser	Val	His
Trp 225	Tyr	Leu	Asn	Thr	Pro 230	Ile	Cys	Pro	Val	Lys 235	Val	Phe	Leu	Gln	Gln 240
Lys	Lys	Lys	Arg	Lys 245	Lys	Lys	Lys	Lys							

<210> 202  
 <211> 156  
 <212> PRT  
 <213> Homo sapiens

<400> 202

Ala 1	Gly	Leu	Ser	Ala 5	Pro	Pro	Pro	Ala	Pro 10	Leu	Leu	Cys	Arg	Ala 15	Gln
Ala	Pro	Leu	Ala 20	Leu	Gly	Pro	Asn	Phe 25	Ser	Tyr	Arg	His	Gly 30	Val	Arg
Pro	Gly	Ser 35	Ser	Pro	Gly	Ala	His 40	Leu	Pro	Glu	Ala	Arg 45	Cys	Gly	Gly
Gly	Pro 50	Arg	Gly	Arg	Ser	Gln 55	Ala	Gln	Ser	Pro	Gln 60	Ser	Ser	Gly	Pro
Val 65	Gly	Gly	Arg	Gly	Arg 70	Ser	Gly	Ser	Lys	Ala 75	Arg	Thr	Pro	Gln	Leu 80
Phe	Arg	Leu	Gln	Gln 85	Gln	Leu	Gln	Arg	Phe 90	Gly	His	Gly	Cys	Glu 95	Val
Pro	Arg	Cys	Trp 100	Leu	Gln	Ala	Ala	Arg 105	Glu	His	Pro	Gly	Gln 110	Gly	Gln
Glu	Ala	Gln 115	Ser	Glu	Glu	Glu	Gly 120	Glu	Gly	Gln	Glu	Gly 125	Glu	Gly	Gln
Glu	Glu 130	Gly	Gly	Ser	Pro	Leu 135	Lys	Gly	Pro	Gly	Gln 140	Gly	Ser	Leu	Asn
Leu 145	Pro	Leu	Cys	Leu	Arg 150	Val	Pro	Thr	Thr	Trp 155	Ser				

<210> 203  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 203

Asp	Pro	Thr	Ser	Leu	Thr	Ala	Met	Glu	Phe	Asp	Leu	Gly	Ala	Ala	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5				10				15			
Glu	Pro	Thr	Ser 20	Gln	Lys	Pro	Gly	Val 25	Gly	Ala	Gly	His	Gly 30	Gly	Asp
Pro	Lys	Leu 35	Ser	Pro	His	Lys	Val 40	Gln	Gly	Arg	Ser	Glu 45	Ala	Gly	Ala
Gly	Pro 50	Gly	Pro	Lys	Gln	Gly 55	His	His	Ser	Ser	Ser	Asp 60	Ser	Ser	Ser
Ser 65	Ser	Ser	Asp	Ser	Asp 70	Thr	Asp	Val	Lys	Ser 75	His	Ala	Ala	Gly	Ser 80
Lys	Gln	His	Glu	Ser 85	Ile	Pro	Gly	Lys	Ala 90	Lys	Lys	Pro	Lys	Val 95	Lys
Lys	Lys	Glu	Lys 100	Gly	Lys	Lys	Glu	Lys 105	Gly	Lys	Lys	Lys	Glu 110	Ala	Pro

His

&lt;210&gt; 204

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 204

Gly 1	Gly	Pro	Pro	Pro 5	Pro	Lys	His	Leu	Ser 10	Ser	Arg	Trp	Leu	Val 15	Leu
Val	Gly	Arg	Glu 20	Glu	Gly	Leu	Met	Ser 25	Pro	Val	Gln	Gly	Pro 30	Ser	Val
Gly	Ser	Leu 35	Leu	Leu	Leu	Ala	Leu 40	Leu	Leu	Leu	Ala	Leu 45	Leu	Leu	Leu
Leu	His 50	Phe	Gly	Leu	Leu	Gly 55	Leu	Ala	Arg	Asp	Ala 60	Leu	Val	Leu	Leu
Gly 65	Ala	Ser	Ser	Val	Gly 70	Leu	His	Ile	Arg	Val 75	Arg	Ile	Ala	Gly	Ala 80
Ala	Ala	Gly	Val	Gly 85	Arg	Ala	Val	Val	Ser 90	Leu	Leu	Trp	Thr	Arg 95	Thr
Cys	Pro	Cys	Leu 100	Arg	Pro	Ala	Leu	Asn 105	Phe	Val	Gly	Thr	Glu 110	Leu	Gly
Ile	Ser	Pro 115	Val	Ala	Arg	Pro	His 120	Thr	Gly	Leu	Leu	Gly 125	Gly	Gly	Leu
Gln	Gly 130	Cys	Ser	Gln	Val	Glu 135	Leu	His	Gly	Gly	Lys 140	Arg	Ser	Trp	Val
Leu 145	Arg	Pro	Arg	Ala	Pro 150	Gly	Pro	Cys	Arg	Gly 155	Ala	Glu	Gln	Gly	Glu 160

Glu Arg

&lt;210&gt; 205

&lt;211&gt; 145

<212> PRT  
 <213> Homo sapiens

<400> 205

Val 1	Glu	Pro	Trp	Thr 5	Thr	Cys	Arg	Ala	Ala 10	Gly	Ala	Val	Met	Ala 15	Asp
Tyr	Trp	Lys	Ser 20	Gln	Pro	Lys	Lys	Phe 25	Cys	Asp	Tyr	Cys	Lys 30	Cys	Trp
Ile	Ala	Asp 35	Asn	Arg	Pro	Ser	Val 40	Glu	Phe	His	Glu	Arg 45	Gly	Lys	Asn
His	Lys 50	Glu	Asn	Val	Ala	Lys 55	Arg	Ile	Ser	Glu	Ile 60	Lys	Gln	Lys	Ser
Leu 65	Asp	Lys	Ala	Lys	Glu 70	Glu	Glu	Lys	Ala	Ser 75	Lys	Glu	Phe	Ala	Ala 80
Met	Glu	Ala	Ala	Ala 85	Leu	Lys	Ala	Tyr	Gln 90	Glu	Asp	Leu	Lys	Arg 95	Leu
Gly	Leu	Glu	Ser 100	Glu	Ile	Leu	Glu	Pro 105	Ser	Ile	Thr	Pro	Val 110	Thr	Ser
Thr	Ile	Pro 115	Pro	Thr	Ser	Thr	Ser 120	Asn	Gln	Gln	Lys	Glu 125	Lys	Lys	Glu
Lys	Lys 130	Lys	Lys	Arg	Ser	Phe 135	Lys	Gly	Gln	Met	Gly 140	Arg	Arg	His	Asn
Leu 145															

<210> 206  
 <211> 262  
 <212> PRT  
 <213> Homo sapiens

<400> 206

Pro 1	Ala	Leu	Ser	His 5	Leu	Pro	Arg	His	Gln 10	Ile	Asn	Arg	Lys	Lys 15	Arg
Lys	Arg	Arg	Arg 20	Lys	Lys	Asp	Pro	Ser 25	Lys	Gly	Arg	Trp	Val 30	Glu	Gly
Ile	Thr	Ser 35	Glu	Gly	Tyr	His	Tyr 40	Tyr	Tyr	Asp	Leu	Ile 45	Ser	Gly	Ala
Ser	Gln 50	Trp	Glu	Lys	Pro	Glu 55	Gly	Phe	Gln	Gly	Asp 60	Leu	Lys	Lys	Thr
Ala 65	Val	Lys	Thr	Val	Trp 70	Val	Glu	Gly	Leu	Ser 75	Glu	Asp	Gly	Phe	Thr 80
Tyr	Tyr	Tyr	Asn	Thr 85	Glu	Thr	Gly	Glu	Ser 90	Arg	Trp	Glu	Lys	Pro 95	Asp
Asp	Phe	Ile	Pro 100	His	Thr	Ser	Asp	Leu 105	Pro	Ser	Ser	Lys	Val 110	Asn	Glu

Asn	Ser	Leu 115	Gly	Thr	Leu	Asp	Glu 120	Ser	Lys	Ser	Ser	Asp 125	Ser	His	Ser
Asp	Ser 130	Asp	Gly	Glu	Gln	Glu 135	Ala	Glu	Glu	Gly	Gly 140	Val	Ser	Thr	Glu
Thr 145	Glu	Lys	Pro	Lys	Ile 150	Lys	Phe	Lys	Glu	Lys 155	Asn	Lys	Asn	Ser	Asp 160
Gly	Gly	Ser	Asp	Pro 165	Glu	Thr	Gln	Lys	Glu 170	Lys	Ser	Ile	Gln	Lys 175	Gln
Asn	Ser	Leu	Gly 180	Ser	Asn	Glu	Glu	Lys 185	Ser	Lys	Thr	Leu	Lys 190	Lys	Ser
Asn	Pro	Tyr 195	Gly	Glu	Trp	Gln	Glu 200	Ile	Lys	Gln	Glu	Val 205	Glu	Ser	His
Glu	Glu 210	Val	Asp	Leu	Glu	Leu 215	Pro	Ser	Thr	Glu	Asn 220	Glu	Tyr	Val	Ser
Thr 225	Ser	Glu	Ala	Asp	Gly 230	Gly	Gly	Glu	Pro	Lys 235	Val	Val	Phe	Lys	Glu 240
Lys	Thr	Val	Thr	Ser 245	Leu	Gly	Val	Met	Ala 250	Asp	Gly	Val	Ala	Pro 255	Val
Phe	Lys	Lys	Arg 260	Arg	Thr										

&lt;210&gt; 207

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 207

Gly 1	Lys	Gly	Arg	Arg 5	Lys	Gly	Ile	Lys	Gly 10	Val	Cys	Cys	Asn	Gly 15	Gly
Ser	Cys	Pro	Glu 20	Ser	Ile	Pro	Arg	Gly 25	Phe	Glu	Lys	Thr	Trp 30	Leu	Arg
Val	Arg	Asn 35	Phe	Gly	Ala	Lys	His 40	Asn	Thr	Ser	Asn	Gln 45	His	Tyr	Pro
Thr	Tyr 50	Leu	Asp	Ile	Lys	Ser 55	Thr	Glu	Arg	Lys	Glu 60	Arg	Glu	Glu	Glu
Lys 65	Lys	Ile	Leu	Gln	Arg 70	Ala	Asp	Gly							

&lt;210&gt; 208

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 208

Ile 1	Trp	Asn	Phe	Gln 5	Ala	Leu	Lys	Met	Ser 10	Met	Tyr	Gln	Leu	Gln 15	Lys
Leu	Met	Val	Ala	Glu	Asn	Pro	Lys	Trp	Tyr	Leu	Lys	Lys	Lys	Gln	Ser

20								25				30				
Leu	Leu	Leu	Glu	Leu	Trp	Gln	Met	Glu	Trp	Pro	Gln	Ser	Ser	Lys	Arg	
		35					40					45				
Glu	Glu	Leu	Glu	Asn	Gly	Lys	Ile	Leu	Gly	Lys	Phe	Lys	Gly	Asn	Glu	
	50					55					60					
Val	Met	Ile	Gln													
65																
<210> 209																
<400> 209																
000																
<210> 210																
<211> 194																
<212> PRT																
<213> Homo sapiens																
<400> 210																
Ser	Val	His	Cys	Phe	Arg	Glu	Asp	Lys	Met	Lys	Phe	Thr	Ile	Val	Phe	
1				5					10					15		
Ala	Gly	Leu	Leu	Gly	Val	Phe	Leu	Ala	Pro	Ala	Leu	Ala	Asn	Tyr	Asn	
			20					25					30			
Ile	Asn	Val	Asn	Asp	Asp	Asn	Asn	Asn	Ala	Gly	Ser	Gly	Gln	Gln	Ser	
		35					40					45				
Val	Ser	Val	Asn	Asn	Glu	His	Asn	Val	Ala	Asn	Val	Asp	Asn	Asn	Asn	
	50					55					60					
Gly	Trp	Asp	Ser	Trp	Asn	Ser	Ile	Trp	Asp	Tyr	Gly	Asn	Gly	Phe	Ala	
65					70					75					80	
Ala	Thr	Arg	Leu	Phe	Gln	Lys	Lys	Thr	Cys	Ile	Val	His	Lys	Met	Asn	
				85					90					95		
Lys	Glu	Val	Met	Pro	Ser	Ile	Gln	Ser	Leu	Asp	Ala	Leu	Val	Lys	Glu	
			100					105					110			
Lys	Lys	Leu	Gln	Gly	Lys	Gly	Pro	Gly	Gly	Pro	Pro	Pro	Lys	Gly	Leu	
		115					120					125				
Met	Tyr	Ser	Val	Asn	Pro	Asn	Lys	Val	Asp	Asp	Leu	Ser	Lys	Phe	Gly	
	130					135					140					
Lys	Asn	Ile	Ala	Asn	Met	Cys	Arg	Gly	Ile	Pro	Thr	Tyr	Met	Ala	Glu	
145					150					155					160	
Glu	Met	Gln	Glu	Ala	Ser	Leu	Phe	Phe	Tyr	Ser	Gly	Thr	Cys	Tyr	Thr	
				165					170					175		
Thr	Ser	Val	Leu	Trp	Ile	Val	Asp	Ile	Ser	Phe	Cys	Gly	Asp	Thr	Val	
			180					185					190			
Glu	Asn															
<210> 211																
<211> 82																
<212> PRT																



&lt;213&gt; Homo sapiens

&lt;400&gt; 211

Val	His	Gln	Ala	Leu	Gly	Arg	Trp	Ser	Ser	Trp	Ser	Leu	Thr	Leu	Lys
1				5				10						15	
Leu	Leu	Phe	Leu	Asp	Gln	Cys	Ile	Lys	Gly	Leu	Asn	Gly	Gly	His	Asp
			20					25					30		
Phe	Leu	Val	His	Phe	Val	His	Asn	Ala	Cys	Leu	Leu	Leu	Lys	Glu	Ser
		35					40					45			
Gly	Cys	Ser	Lys	Ala	Ile	Ser	Ile	Ile	Pro	Asp	Gly	Ile	Pro	Gly	Val
	50					55					60				
Pro	Ser	Val	Val	Ile	Val	Asn	Ile	Gly	His	Ile	Val	Phe	Ile	Val	Asp
65					70					75					80
Thr	His														

&lt;210&gt; 212

&lt;211&gt; 119

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 212

Glu	Leu	Gly	Leu	Asn	His	Leu	Trp	Leu	Arg	Val	Trp	Leu	Glu	Pro	Thr
1				5					10					15	
Ala	Gln	Val	Pro	Asp	Val	Leu	Phe	Pro	Glu	Phe	Met	Glu	Arg	Glu	Glu
			20					25					30		
Lys	Ala	Val	Ser	Leu	Leu	Leu	Trp	Phe	Asn	Val	Lys	Glu	Pro	Gln	Leu
		35					40					45			
Pro	Pro	Leu	Pro	Gly	Arg	Glu	Ala	Phe	Gly	Phe	Leu	Leu	Leu	Leu	Leu
	50					55					60				
Ala	Leu	Val	Ala	Gly	Glu	Val	Leu	Gln	Asp	His	Arg	Leu	Ala	Leu	Gln
65					70					75					80
Leu	Val	Leu	Ala	Gly	Leu	Arg	Ala	His	Ala	Gly	Arg	Leu	Arg	Phe	Arg
				85					90					95	
Lys	Ala	Leu	Thr	Lys	Ala	Ser	Ala	Arg	Cys	Ala	Pro	Glu	Gly	Trp	Thr
			100					105					110		
Ser	Glu	Ser	Phe	Ala	Ser	Phe									
		115													

&lt;210&gt; 213

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 213

Ile	Ile	Cys	Gly	Cys	Val	Ser	Gly	Leu	Ser	Pro	Leu	His	Arg	Ser	Leu
1				5					10					15	
Met	Tyr	Cys	Phe	Gln	Ser	Ser	Trp	Arg	Gly	Arg	Lys	Arg	Leu	Tyr	Leu

20								25				30			
Cys	Cys	Ser	Gly	Leu	Met	Ser	Lys	Ser	Arg	Ser	Ser	Leu	Leu	Cys	Leu
		35					40					45			
Ala	Glu	Lys	Pro	Leu	Ala	Phe	Phe	Phe	Phe	Ser	Leu	Arg	Leu	Trp	Arg
	50					55					60				
Val	Lys	Tyr	Ser	Arg	Thr	Thr	Ala	Leu	Arg	Cys	Ser	Trp	Ser	Ser	Arg
65					70					75					80
Ala	Cys	Gly	Leu	Met	Arg	Gly	Val	Cys	Ala	Ser	Gly	Arg	Pro	Ser	Arg
				85					90					95	
Arg	Pro	Arg	Pro	Ala	Val	Leu	Leu	Lys	Ala	Gly	His	Arg	Ser	His	Ser
			100					105					110		
Pro	Leu	Ser	Glu	Thr	Met	His	Gly	Arg	Ser	His	Ser	Ser	Phe	Ser	Asp
		115					120					125			
Arg	Phe	Arg	Arg	Ser	Leu	Met	Thr								
	130					135									

<210> 214  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<400> 214

Thr	Leu	Glu	Thr	Val	His	Gln	Gly	Pro	Val	Gln	Trp	Ala	Gln	Ala	Arg
1				5					10					15	
His	Ala	Ala	Thr	Asp	Asp	Ser	Gly	Gln	Ala	Leu	Lys	Gly	Arg	Ser	Ser
			20					25					30		
Arg	Gly	Tyr	Tyr	Phe	Ser	Asp	Lys	Ile	Gln	Met	Pro	Leu	Leu	Cys	Gly
		35					40					45			
Tyr	Tyr	Arg	Asn	Pro	Ser	Thr	Gly	Asn	Lys	Ala	His	Phe	Gln	Asn	Tyr
	50					55					60				
His	Gln	Arg	Arg	Pro	Pro	Glu	Ser	Tyr	Pro	Gln	Ala	Lys	Leu	Arg	Val
65					70					75					80
His	Cys	Gly	Asn	Arg	Trp	Leu	Tyr	Phe	Leu	His	Leu	Arg	Glu	Gln	Ile
				85					90					95	
Pro	Ala	Ser	Val	Lys											
			100												

<210> 215  
 <211> 204  
 <212> PRT  
 <213> Homo sapiens

<400> 215

Leu	Arg	Cys	Pro	Ala	Phe	Arg	Ser	Thr	Ala	Gly	Arg	Gly	Leu	Arg	Glu
1				5					10					15	
Gly	Leu	Pro	Glu	Ala	Gln	Thr	Pro	Arg	Met	Ser	Pro	Gln	Ala	Arg	Glu
			20					25					30		

Asp	Gln	Leu	Gln	Arg	Lys	Ala	Val	Val	Leu	Glu	Tyr	Phe	Thr	Arg	His
		35					40					45			
Lys	Arg	Lys	Glu	Lys	Lys	Lys	Lys	Ala	Lys	Gly	Phe	Ser	Ala	Arg	Gln
	50					55					60				
Arg	Arg	Glu	Leu	Arg	Leu	Phe	Asp	Ile	Lys	Pro	Glu	Gln	Gln	Arg	Tyr
65					70					75					80
Ser	Leu	Phe	Leu	Pro	Leu	His	Glu	Leu	Trp	Lys	Gln	Tyr	Ile	Arg	Asp
				85					90					95	
Leu	Cys	Ser	Gly	Leu	Lys	Pro	Asp	Thr	Gln	Pro	Gln	Met	Ile	Gln	Ala
			100					105					110		
Lys	Leu	Leu	Lys	Ala	Asp	Leu	His	Gly	Ala	Ile	Ile	Ser	Val	Thr	Lys
		115					120					125			
Ser	Lys	Cys	Pro	Ser	Tyr	Val	Gly	Ile	Thr	Gly	Ile	Leu	Leu	Gln	Glu
	130					135					140				
Thr	Lys	His	Ile	Phe	Lys	Ile	Ile	Thr	Lys	Glu	Asp	Arg	Leu	Lys	Val
145					150					155					160
Ile	Pro	Lys	Leu	Asn	Cys	Val	Phe	Thr	Val	Glu	Thr	Asp	Gly	Phe	Ile
				165					170					175	
Ser	Tyr	Ile	Tyr	Gly	Ser	Lys	Phe	Gln	Leu	Arg	Ser	Ser	Glu	Arg	Ser
			180					185					190		
Ala	Lys	Lys	Phe	Lys	Ala	Lys	Gly	Thr	Ile	Asp	Leu				
		195					200								

&lt;210&gt; 216

&lt;211&gt; 645

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 216

Pro	Thr	Arg	Pro	Val	Ala	Ala	Gly	Ser	Glu	Gln	Gln	Gln	Gln	Ser	Ala
1				5					10					15	
Phe	Ile	Gln	Glu	Arg	Gln	Pro	Val	Ala	Leu	Met	Arg	Leu	Leu	Ser	Phe
			20					25					30		
Asn	Val	Pro	His	Ile	Lys	Asn	Ser	Thr	Gly	Glu	Pro	Ile	Trp	Lys	Val
		35					40					45			
Leu	Ile	Tyr	Asp	Arg	Phe	Gly	Gln	Asp	Ile	Ile	Ser	Pro	Leu	Leu	Ser
	50					55					60				
Val	Lys	Glu	Leu	Arg	Asp	Met	Gly	Ile	Thr	Leu	His	Leu	Leu	Leu	His
65					70					75					80
Ser	Asp	Arg	Asp	Pro	Ile	Pro	Asp	Val	Pro	Ala	Val	Tyr	Phe	Val	Met
				85					90					95	
Pro	Thr	Glu	Glu	Asn	Ile	Asp	Arg	Met	Cys	Gln	Asp	Leu	Arg	Asn	Gln
			100					105					110		
Leu	Tyr	Glu	Ser	Tyr	Tyr	Leu	Asn	Phe	Ile	Ser	Ala	Ile	Ser	Arg	Ser

115							120					125				
Lys	Leu 130	Glu	Asp	Ile	Ala	Asn 135	Ala	Ala	Leu	Ala	Ala 140	Ser	Ala	Val	Thr	
Gln 145	Val	Ala	Lys	Val	Phe 150	Asp	Gln	Tyr	Leu	Asn 155	Phe	Ile	Thr	Leu	Glu 160	
Asp	Asp	Met	Phe	Val 165	Leu	Cys	Asn	Gln	Asn 170	Lys	Glu	Leu	Val	Ser 175	Tyr	
Arg	Ala	Ile	Asn 180	Arg	Pro	Asp	Ile	Thr 185	Asp	Thr	Glu	Met	Glu 190	Thr	Val	
Met	Asp	Thr 195	Ile	Val	Asp	Ser	Leu 200	Phe	Cys	Phe	Phe	Val 205	Thr	Leu	Gly	
Ala	Val 210	Pro	Ile	Ile	Arg	Cys 215	Ser	Arg	Gly	Thr	Ala 220	Ala	Glu	Met	Val	
Ala 225	Val	Lys	Leu	Asp	Lys 230	Lys	Leu	Arg	Glu	Asn 235	Leu	Arg	Asp	Ala	Arg 240	
Asn	Ser	Leu	Phe	Thr 245	Gly	Asp	Thr	Leu	Gly 250	Ala	Gly	Gln	Phe	Ser 255	Phe	
Gln	Arg	Pro	Leu 260	Leu	Val	Leu	Val	Asp 265	Arg	Asn	Ile	Asp	Leu 270	Ala	Thr	
Pro	Leu	His 275	His	Thr	Trp	Thr	Tyr 280	Gln	Ala	Leu	Val	His 285	Asp	Val	Leu	
Asp	Phe 290	His	Leu	Asn	Arg	Val 295	Asn	Leu	Glu	Glu	Ser 300	Ser	Gly	Val	Glu	
Asn 305	Ser	Pro	Ala	Gly	Ala 310	Arg	Pro	Lys	Arg	Lys 315	Asn	Lys	Lys	Ser	Tyr 320	
Asp	Leu	Thr	Pro	Val 325	Asp	Lys	Phe	Trp	Gln 330	Lys	His	Lys	Gly	Ser 335	Pro	
Phe	Pro	Glu	Val 340	Ala	Glu	Ser	Val	Gln 345	Gln	Glu	Leu	Glu	Ser 350	Tyr	Arg	
Ala	Gln	Glu 355	Asp	Glu	Val	Lys	Arg 360	Leu	Lys	Ser	Ile	Met 365	Gly	Leu	Glu	
Gly	Glu 370	Asp	Glu	Gly	Ala	Ile 375	Ser	Met	Leu	Ser	Asp 380	Asn	Thr	Ala	Lys	
Leu 385	Thr	Ser	Ala	Val	Ser 390	Ser	Leu	Pro	Glu	Leu 395	Leu	Glu	Lys	Lys	Arg 400	
Leu	Ile	Asp	Leu	His 405	Thr	Asn	Val	Ala	Thr 410	Ala	Val	Leu	Glu	His 415	Ile	
Lys	Ala	Arg	Lys 420	Leu	Asp	Val	Tyr	Phe 425	Glu	Tyr	Glu	Glu	Lys 430	Ile	Met	
Ser	Lys	Thr 435	Thr	Leu	Asp	Lys	Ser 440	Leu	Leu	Asp	Ile	Ile 445	Ser	Asp	Pro	
Asp	Ala	Gly	Thr	Pro	Glu	Asp	Lys	Met	Arg	Leu	Phe	Leu	Ile	Tyr	Tyr	

```
<210> 217
<211> 101
<212> PRT
<213> Homo sapiens
<400> 217
```

Gly 1	Ala	Gly	Pro	Ser 5	Gln	Leu	Arg	Leu	His 10	Tyr	Pro	Arg	Ile	Ser 15	Met
Ala	Val	Arg	Gln 20	Trp	Val	Ile	Ala	Leu 25	Ala	Leu	Ala	Ala	Leu 30	Leu	Val
Val	Asp	Arg 35	Glu	Val	Pro	Val	Ala 40	Ala	Gly	Lys	Leu	Pro 45	Phe	Ser	Arg
Met	Pro 50	Ile	Cys	Glu	His	Met 55	Val	Glu	Ser	Pro	Thr 60	Cys	Ser	Gln	Met
Ser 65	Asn	Leu	Val	Cys	Gly 70	Thr	Asp	Gly	Leu	Thr 75	Tyr	Thr	Asn	Glu	Cys 80
Gln	Leu	Cys	Leu	Ala 85	Arg	Ile	Lys	Thr	Lys 90	Gln	Asp	Ile	Gln	Ile 95	Met

Lys Asp Gly Lys Cys  
100

<210> 218  
<211> 123  
<212> PRT  
<213> Homo sapiens

<400> 218

Gln 1	Leu	Gly	Trp	Ile 5	Phe	Tyr	Phe	Met	Ser 10	Tyr	Pro	Leu	His	Ala 15	His
His	Cys	Ser	Pro 20	Ala	Asp	Thr	Ser	Trp 25	Leu	Glu	Val	Leu	Leu 30	Trp	Asp
Gln	His	Leu 35	Pro	Ser	Phe	Met	Ile 40	Trp	Met	Ser	Cys	Leu 45	Val	Phe	Ile
Arg	Ala 50	Lys	Gln	Ser	Trp	His 55	Ser	Phe	Val	Tyr	Val 60	Ser	Pro	Ser	Val
Pro 65	Gln	Thr	Arg	Leu	Asp 70	Ile	Trp	Glu	Gln	Val 75	Gly	Asp	Ser	Thr	Met 80
Cys	Ser	Gln	Met	Gly 85	Ile	Leu	Glu	Lys	Gly 90	Ser	Phe	Pro	Ala	Ala 95	Thr
Gly	Thr	Ser	Leu 100	Ser	Thr	Thr	Arg	Arg 105	Ala	Ala	Lys	Ala	Arg 110	Ala	Ile
Thr	His	Trp 115	Arg	Thr	Ala	Met	Leu 120	Ile	Leu	Gly					

<210> 219  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 219

Ile 1	Lys	Ala	Lys	Phe 5	Asn	Leu	Asn	Ala	Phe 10	Phe	Phe	Phe	Phe	Leu 15	Leu
Arg	Ser	Glu	Ile 20	Gly	Thr	Val	Ile	Leu 25	Ser	Thr	Glu	Arg	Gln 30	Thr	Ile
Lys	Trp	Ala 35	Met	Lys	Gly	Gly	Gly 40	Lys	Val	Leu	Ser	Ile 45	Val	Arg	Gly
Ile 50	Gln	Pro	Glu	Ile	Lys	Pro 55	Ile	Tyr	Lys	His	Val 60	Cys	Ser	Ser	Lys

<210> 220  
<211> 67  
<212> PRT  
<213> Homo sapiens

<400> 220

Ser 1	Phe	Ala	Ile	Pro 5	Phe	Pro	Trp	His	Cys 10	Thr	Ile	Ser	Pro	Ile 15	Ile
----------	-----	-----	-----	----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Gly	Gln	Ser	Leu 20	Gly	Phe	Leu	Gly	Phe 25	Thr	Met	Val	Ala	Thr 30	Thr	Ile
Arg	Leu	Ile 35	Asp	Gly	Ser	Asn	Leu 40	Lys	Lys	Lys	Val	Met 45	Val	Met	Asp
Lys	Ile 50	Ser	Arg	Ser	Arg	Glu 55	Val	Cys	Tyr	His	Lys 60	Ile	Thr	Val	Ala
Ser 65	Thr	Ser													

<210> 221  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 221

Thr 1	Ile	Ile	Ser	Ser 5	Ile	Thr	Asp	Ser	Gln 10	Leu	Gln	Glu	Val	Ala 15	Glu
Gln	Leu	Glu	Ile 20	Phe	Ala	Ala	Leu	His 25	Glu	Val	Leu	His	Ile 30	Ile	Asn
Asp	Arg	Lys 35	Asn	Leu	Lys	Gly	Gly 40	Leu	Gln	Glu	Val	Ala 45	Glu	Gln	Leu
Glu	Leu 50	Glu	Arg	Ile	Gly	Pro 55	Gln	His	Gln	Ala	Gly 60	Ser	Asp	Ser	Leu
Leu 65	Thr	Gly	Met	Ala	Phe 70	Phe	Lys	Met	Arg	Glu 75	Met	Phe	Phe	Glu	Asp 80
His	Ile	Asp	Asp	Ala 85	Lys	Tyr	Cys	Gly	His 90	Leu	Tyr	Gly	Leu	Gly 95	Ser
Gly	Ser	Ser	Tyr 100	Val	Gln	Asn	Gly	Thr 105	Gly	Asn	Ala	Tyr	Glu 110	Glu	Glu
Ala	Asn	Lys 115	Gln	Ser											

<210> 222  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<400> 222

Pro 1	Thr	Cys	Pro	Ile 5	Gln	His	Phe	Ile	Met 10	Met	Lys	Leu	Trp	Val 15	Pro
Ser	Arg	Ser	Leu 20	Pro	Asn	Ser	Pro	Asn 25	His	Tyr	Arg	Ser	Phe 30	Leu	Ser
His	Thr	Leu 35	His	Ile	Arg	Tyr	Asn 40	Asn	Ser	Leu	Phe	Ile 45	Ser	Asn	Thr
His	Leu 50	Ser	Arg	Arg	Lys	Leu 55	Arg	Val	Thr	Asn	Pro 60	Ile	Tyr	Thr	Arg
Lys	Arg	Ser	Leu	Asn	Ile	Phe	Tyr	Leu	Leu	Ile	Pro	Ser	Cys	Arg	Thr

65					70					75					80				
Arg	Leu	Ile	Leu	Trp 85	Ile	Ile	Tyr	Ile	Tyr 90	Arg	Asn	Leu	Lys	His 95	Trp				
Ser	Thr	Ser	Thr 100	Val	Arg	Ser	His	Ser 105	His	Ser	Ile	Tyr	Arg 110	Leu	Arg				
Pro	Ser	Met 115	Arg	Thr	Asn	Ile	Ile 120	Leu	Arg	Cys	His	Ser 125	Tyr	Tyr	Lys				
Pro	Pro 130	Ile	Ser	His	Pro	Ile 135	Tyr	Trp	Asn	Asn	Pro 140	Ser	Arg	Met	Asn				
Leu 145	Arg	Gly	Leu	Leu	Ser 150	Arg	Gln	Ser	His	Leu 155	Asp	Pro	Ile	Leu	Arg 160				
Phe	Pro	Leu	His	Leu 165	Thr	Ile	Tyr	Tyr	Arg 170	Gly	Pro	Ser	Asn	Arg 175	Ser				
Pro	Pro	Leu	Pro 180	Pro	Arg	Asn	Arg	Ile 185	Lys	Gln	Pro	Asn	Arg 190	Ile	Lys				
Leu	Arg	Cys 195	Arg																

&lt;210&gt; 223

&lt;211&gt; 174

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 223

Leu 1	Pro	Ser	Ala	Ile 5	Glu	Gly	Pro	Thr	Pro 10	Val	Ser	Ala	Leu	Leu 15	His
Ser	Ser	Thr	Ile 20	Val	Val	Ala	Gly	Ile 25	Phe	Leu	Leu	Val	Arg 30	Phe	His
Pro	Leu	Thr 35	Thr	Asn	Asn	Asn	Phe 40	Ile	Leu	Thr	Thr	Ile 45	Leu	Cys	Leu
Gly	Ala 50	Leu	Thr	Thr	Leu	Phe 55	Thr	Ala	Ile	Cys	Ala 60	Leu	Thr	Gln	Asn
Asp 65	Ile	Lys	Lys	Ile	Ile 70	Ala	Phe	Ser	Thr	Ser 75	Ser	Gln	Leu	Gly	Leu 80
Ile	Ile	Val	Thr	Leu 85	Gly	Ile	Asn	Gln	Pro 90	His	Leu	Ala	Phe	Leu 95	His
Ile	Cys	Thr	His 100	Ala	Phe	Phe	Lys	Ala 105	Ile	Leu	Phe	Ile	Cys 110	Ser	Gly
Ser	Ile	Ile 115	His	Ser	Leu	Ala	Asp 120	Glu	Gln	Asp	Ile	Arg 125	Lys	Ile	Gly
Asn	Ile 130	Thr	Lys	Ile	Ile	Pro 135	Phe	Thr	Ser	Ser	Cys 140	Leu	Val	Ile	Gly
Ser 145	Leu	Ala	Leu	Thr	Gly 150	Ile	Pro	Phe	Leu	Thr 155	Gly	Phe	Tyr	Ser	Lys 160



```
<210> 224
<211> 123
<212> PRT
<213> Homo sapiens
```

<400> 224

Phe 1	Leu	Lys	Thr	Thr 5	Ala	Leu	Ile	Ile	Ser 10	Val	Leu	Gly	Phe	Leu 15	Ile
Ala	Leu	Glu	Leu 20	Asn	Asn	Leu	Thr	Ile 25	Lys	Leu	Ser	Ile	Asn 30	Lys	Ala
Asn	Pro	Tyr 35	Ser	Ser	Phe	Ser	Thr 40	Leu	Leu	Gly	Phe	Phe 45	Pro	Ser	Ile
Ile	His 50	Arg	Ile	Thr	Pro	Ile 55	Lys	Ser	Leu	Asn	Leu 60	Ser	Leu	Lys	Thr
Ser 65	Leu	Thr	Leu	Leu	Asp 70	Leu	Ile	Trp	Leu	Glu 75	Lys	Thr	Ile	Pro	Lys 80
Ser	Thr	Ser	Thr	Leu 85	His	Thr	Asn	Ile	Thr 90	Thr	Leu	Thr	Thr	Asn 95	Gln
Lys	Gly	Leu	Ile 100	Lys	Leu	Tyr	Phe	Ile 105	Ser	Phe	Leu	Ile	Asn 110	Ile	Ile
Leu	Ile	Ile 115	Ile	Leu	Tyr	Ser	Ile 120	Asn	Leu	Glu					

```
<210> 225
<211> 129
<212> PRT
<213> Homo sapiens
```

<400> 225

Asn 1	Met	Leu	Leu	Ala 5	Glu	Val	Arg	Ile	Ser 10	Met	Val	Ile	Arg	Asn 15	Ser
Val	Arg	Tyr	Leu 20	Met	Asn	Arg	Leu	Met 25	Phe	Gly	Ser	Glu	Cys 30	Ile	Tyr
His	Glu	Glu 35	Asn	Cys	Ile	Ile	Asp 40	His	Val	Thr	Lys	Arg 45	Ala	Thr	Asp
Val	Asn 50	Arg	Ile	Glu	Lys	Lys 55	Ser	Val	Leu	Lys	Leu 60	Ile	Leu	Ser	Ser
Ile 65	Glu	Phe	Met	Val	Thr 70	Gln	Cys	Gln	Val	Val 75	Ile	Ile	Tyr	Ser	Ile 80
Leu	Leu	Trp	Lys	Asn 85	Ile	Asn	Arg	Gly	Lys 90	Arg	Leu	Ile	Met	Lys 95	Glu
Asn	Leu	Ile	Asp 100	Val	Val	Val	Tyr	Ser 105	Gly	Lys	Leu	Met	Cys 110	Leu	Ile
Arg	Phe	Asp	Ile	Glu	Ile	Arg	Ile	Gly	Asp	Ser	Arg	Arg	Met	Lys	Ile

115

120

125

Lys

<210> 226  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 226

Phe 1	Phe	Phe	Phe	Phe 5	Phe	Phe	Ala	Ile	Gln 10	Met	Asn	Val	Tyr	Phe 15	Leu
Asn	Pro	His	Arg 20	Val	Arg	Ala	Glu	Leu 25	Arg	Asp	Ala	Trp	His 30	Ser	Ile
Ser	His	Pro 35	Gly	Ser	Leu	Pro	Arg 40	Ser	Phe	Phe	Phe	Ala 45	Gly	Ser	Ile
Leu	Asp 50	Leu	Tyr	His	Phe	Leu 55	Gln	Arg	Gln	Tyr	Pro 60	Glu	Trp	Gln	Ser
Gln 65	Val	Tyr	Phe	Lys	Val 70	Gly	Val	Phe	Ser	Gly 75	Ser	Arg	Gly	Asp	Trp 80
Ile	Pro	Ser													

<210> 227  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 227

Ser 1	Met	Met	Leu	Phe 5	Lys	Val	Leu	Val	Ile 10	Thr	Val	Phe	Cys	Gly 15	Leu
Thr	Val	Ala	Phe 20	Pro	Leu	Ser	Glu	Leu 25	Val	Ser	Ile	Asn	Lys 30	Glu	Leu
Gln	Asn	Ser 35	Ile	Ile	Asp	Leu	Leu 40	Asn	Ser	Val	Phe	Asp 45	Gln	Leu	Gly
Ser	Tyr 50	Arg	Gly	Thr	Lys	Ala 55	Pro	Leu	Glu	Asp	Tyr 60	Thr	Asp	Asp	Asp
Leu 65	Ser	Thr	Asp	Ser	Glu 70	Gln	Ile	Met	Asp	Phe 75	Thr	Pro	Ala	Ala	Asn 80
Lys	Gln	Asn	Ser	Glu 85	Phe	Ser	Thr	Asp	Val 90	Glu	Thr	Val	Ser	Ser 95	Gly
Phe	Leu	Glu	Glu 100	Phe	Thr	Glu	Asn	Thr 105	Asp	Ile	Thr	Val	Lys 110	Ile	Pro
Leu	Ala	Gly 115	Asn	Pro	Val	Ser	Pro 120	Thr	Ser						

<210> 228  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

115 120 125  
 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80  
 1 20 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120

&lt;400&gt; 228

Thr 1	Ser	Thr	Thr	Val 5	Phe	Phe	Phe	Pro	Phe 10	His	Leu	Ser	Leu	Pro 15	Val
Gly	Cys	Thr	Val 20	Cys	Ser	His	Ala	Leu 25	Cys	Ile	Asn	Ile	Leu 30	Glu	Ile
Tyr	Arg	Ser 35	Val	Leu	Tyr	Phe	Leu 40	Tyr	Cys	Trp	Ile	Leu 45	Ile	Ile	Lys
Thr	Phe 50	Thr	Arg	Val	Leu	Asn 55	Lys	Ser	Ser	Leu	Thr 60	Arg	Lys		

&lt;210&gt; 229

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 229

Ala 1	Arg	Pro	Cys	Met 5	Asn	Ser	Thr	Lys	Ala 10	Leu	Pro	His	Gly	Arg 15	Glu
His	Thr	Arg	Leu 20	Lys	Met	Leu	Ser	Tyr 25	Leu	Lys	Asn	Lys	Met 30	Cys	Lys
Ser	Ser	Gly 35	Trp	His	Lys	Thr	Lys 40	Val	Asn	Ala	Ser	Trp 45	Gly	Thr	Phe
Leu	Arg 50	Gly	Leu	Ala	Glu	Cys 55	Val	Asn	Ile	Ile	Asp 60	Phe	Cys	Leu	Cys
Tyr 65	Met	Thr	Ser	Val	Thr 70	Ser	Leu	Lys	Ile	Cys 75	Thr	Ile	Gln	Phe	Gln 80
Leu	Trp	Ile	Thr	Ser 85	Val	Asp	Leu	Cys	Glu 90	Gly	Phe	Tyr	Leu	Cys 95	Arg
Met	Gly	Val													

&lt;210&gt; 230

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 230

Gly 1	Glu	Leu	Gln	Lys 5	Ser	Ser	His	Tyr	His 10	Pro	Pro	Glu	Leu	Phe 15	Glu
Met	Ile	Phe	Phe 20	Val	His	Phe	Gly	Cys 25	Ser	Ile	Gly	Gly	Arg 30	Ile	Tyr
Tyr	Asn	Met 35	Asp	His	Leu	Tyr	Phe 40	Cys	Ile	Tyr	Leu	Phe 45	Ile	Thr	Arg
Pro	Gln 50	Pro	Gln	Ser	Ser	Phe 55	Ser	Pro	Ser	Thr	Ser 60	Leu	Cys	Leu	

&lt;210&gt; 231

&lt;211&gt; 64

<212> PRT  
 <213> Homo sapiens

<400> 231

Ile	Asn	Lys	Tyr	Arg	Ser	Arg	Asp	Asp	Pro	Tyr	Tyr	Ser	Ile	Phe	Tyr
1				5					10					15	
His	Gln	Tyr	Cys	Ser	Gln	Asn	Val	Gln	Lys	Lys	Ser	Phe	Gln	Ile	Thr
			20					25					30		
Gln	Glu	Asp	Asp	Asn	Gly	Trp	Thr	Phe	Val	Ile	His	Leu	Lys	Asp	Cys
		35					40					45			
Gly	Arg	Ala	Asn	Ser	Thr	His	Cys	Ile	Val	Cys	Ala	Tyr	Gly	Gly	Leu
	50					55					60				

<210> 232  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 232

Pro	Leu	Phe	Cys	Ala	Ile	Leu	Lys	Thr	Cys	Thr	Phe	Tyr	Phe	Ser	Asp
1				5					10					15	
Ser	Leu	Thr	Phe	Leu	Ile	Glu	Cys	Val	Leu	Tyr	His	Ala	Val	Met	Leu
			20					25					30		
Trp	Tyr	Tyr	Ser	Tyr	Arg	Val	Leu	Pro	Ile	Leu	Lys	Thr	Cys	His	Phe
		35					40					45			
Pro	Lys	Arg	Ser	Phe	Asp	Ser	Ala	Leu	Glu	Val	Leu	His	Lys	Leu	Lys
	50					55					60				
Ser	Leu	Ser	Asn	Ile	Asn	Met	Lys	Gly	Gly	Thr	Gly	Cys	Asn	Ile	Tyr
65					70					75					80
Ser	Gln	Val	Thr	Ser	Leu	Tyr	Ile								
				85											

<210> 233  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 233

Ala	Ser	Thr	Ile	Met	Asp	Leu	Leu	Phe	Gly	Arg	Arg	Lys	Thr	Pro	Glu
1				5					10					15	
Glu	Leu	Leu	Arg	Gln	Asn	Gln	Arg	Ala	Leu	Asn	Arg	Ala	Met	Arg	Glu
			20					25					30		
Leu	Asp	Arg	Glu	Arg	Gln	Lys	Leu	Glu	Thr	Gln	Glu	Lys	Lys	Ile	Ile
		35					40					45			
Ala	Asp	Ile	Lys	Lys	Met	Ala	Lys	Gln	Gly	Gln	Met	Asp	Ala	Val	Arg
	50					55					60				
Ile	Met	Ala	Lys	Asp	Leu	Val	Arg	Thr	Arg	Arg	Tyr	Val	Arg	Lys	Phe
65					70					75					80

Val	Leu	Met	Arg	Ala 85	Asn	Ile	Gln	Ala	Val 90	Ser	Leu	Lys	Ile	Gln 95	Thr
Leu	Lys	Ser	Asn 100	Asn	Ser	Met	Ala	Gln 105	Ala	Met	Lys	Gly	Val 110	Thr	Lys
Ala	Met	Gly 115	Thr	Met	Asn	Arg	Gln 120	Leu	Lys	Leu	Pro	Gln 125	Ile	Gln	Lys
Ile	Met 130	Met	Glu	Phe	Glu	Arg 135	Gln	Ala	Glu	Ile	Met 140	Asp	Met	Lys	Glu
Glu 145	Arg	Ile	Glu	Leu	Leu 150	His	Leu	Met	Ile	Pro 155	Trp	Val	Leu	Gly	Lys 160

Phe

<210> 234  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 234

Arg 1	Arg	Val	Arg	Thr 5	Lys	Ser	Phe	Ala	Met 10	Met	Arg	Thr	Ala	Ser 15	Ile
Trp	Pro	Cys	Leu 20	Ala	Ile	Phe	Leu	Met 25	Ser	Ala	Met	Ile	Phe 30	Phe	Ser
Trp	Val	Ser 35	Ser	Phe	Cys	Arg	Ser 40	Arg	Ser	Ser	Ser	Arg 45	Met	Ala	Arg
Phe	Arg 50	Ala	Leu	Trp	Phe	Cys 55	Arg	Ser	Ser	Ser	Ser	Gly 60	Val	Phe	Arg
Arg 65	Pro	Asn	Asn	Arg	Ser 70	Met	Met	Val	Glu	Ala 75	His	Trp	Gln	Ala	Gly 80
Ala	Gly	Thr	Asp	Thr 85	Arg	Phe	Arg	Phe	Arg 90	Val	Thr	Leu	Leu	Phe 95	Leu
Gly	Ser	Pro	Thr 100	Cys	Pro	Pro	Thr	Lys 105	Ala	Pro	Arg	Ser	Cys 110	Arg	Arg
Arg	Arg	Arg 115	Phe	Arg	Gly	Arg	Val 120								

<210> 235  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 235

Lys 1	Leu	Pro	Gln	Asn 5	Pro	Arg	Asp	His	Gln 10	Met	Gln	Gln	Phe	Asn 15	Pro
Leu	Leu	Leu	His 20	Ile	His	Asp	Leu	Cys 25	Leu	Pro	Leu	Lys	Leu 30	His	His
Asp	Leu	Leu	Asp	Leu	Gly	Gln	Leu	Gln	Leu	Ser	Val	His	Gly	Ala	His

35						40					45				
Gly	Leu	Gly	Asp	Thr	Leu	His	Gly	Leu	Cys	His	Arg	Val	Val	Gly	Leu
	50					55					60				
Glu	Cys	Leu	Asp	Leu	Glu	Gly	His	Ser	Leu	Asp	Val	Gly	Pro	His	Gln
65					70					75					80
Tyr	Lys	Leu	Ala	His	Ile	Ala	Pro	Gly	Ala	His	Gln	Val	Phe	Cys	His
				85					90					95	
Asp	Ala	Asn	Ser	Ile	His	Leu	Ala	Leu	Leu	Gly	His	Leu	Leu	Asn	Val
			100					105					110		
Cys	Asn	Asp	Phe	Leu	Leu	Leu	Gly	Leu							
		115					120								

&lt;210&gt; 236

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 236

Lys	Thr	Lys	Arg	Ser	Val	Lys	Asp	Ala	Ala	Lys	Lys	Gly	Gln	Lys	Asp
1				5					10					15	
Val	Cys	Ile	Val	Leu	Ala	Lys	Glu	Met	Ile	Arg	Ser	Arg	Lys	Ala	Val
			20					25					30		
Ser	Lys	Leu	Tyr	Ala	Ser	Lys	Ala	His	Met	Asn	Ser	Val	Leu	Met	Gly
		35					40					45			
Met	Lys	Asn	Gln	Leu	Ala	Val	Leu	Arg	Val	Ala	Gly	Ser	Leu	Gln	Lys
	50					55					60				
Ser	Thr	Glu	Val	Met	Lys	Ala	Met	Gln	Ser	Leu	Val	Lys	Ile	Pro	Glu
65					70					75					80
Ile	Gln	Ala	Thr	Met	Arg	Glu	Leu	Ser	Lys	Glu	Met	Met	Lys	Ala	Gly
				85					90					95	
Ile	Ile	Glu	Glu	Met	Leu	Glu	Asp	Thr	Phe	Glu	Ser	Met	Asp	Asp	Gln
			100					105					110		
Glu	Glu	Met	Glu	Glu	Glu	Ala	Glu	Met	Glu	Ile	Asp	Arg	Ile	Leu	Phe
		115					120					125			
Glu	Ile	Thr	Ala	Gly	Ala	Leu	Gly	Lys	Ala	Pro	Ser	Lys	Val	Thr	Asp
	130					135					140				
Ala	Leu	Pro	Glu	Pro	Glu	Pro	Pro	Gly	Ala	Met	Ala	Ala	Ser	Glu	Asp
145					150					155					160
Glu	Gly	Glu	Glu	Glu	Glu	Ala	Leu	Glu	Ala	Met	Gln	Ser	Arg	Leu	Ala
				165					170					175	
Thr	Leu	Arg	Ser												
			180												

&lt;210&gt; 237

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 237

Leu 1	Met	Pro	Phe	Gln 5	Ser	Gln	Asn	Leu	Gln 10	Glu	Arg	Trp	Leu	Pro 15	Gln
Arg	Met	Arg	Gly 20	Arg	Arg	Lys	Arg	Leu 25	Trp	Arg	Pro	Cys	Ser 30	Pro	Gly
Trp	Pro	His 35	Ser	Ala	Ala	Arg	Gly 40	Cys	Leu	Pro	Arg	Trp 45	Val	Cys	Thr
His	Ser 50	Ser	Gln	Glu	Leu	Pro 55	Phe	Tyr	Val	Ser	Leu 60	Ala	Leu	His	Leu
Cys 65	Cys	Glu	Asp	Tyr	His 70	Phe	Gly	Glu	Gly	Ser 75	Val	Cys	Leu	Phe	Ser 80
Phe	Ser	Ala	Gln	Val 85	Leu	Gly	Ser	Gln	Arg 90	Asp	Cys	Ser	Tyr	Lys 95	Ser
Gly	Ile	Asn	Lys 100	Cys	Ile	Ile	Phe	Arg 105	Lys	Lys	Lys	Lys	Lys 110	Lys	

&lt;210&gt; 238

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 238

Lys 1	Ile	Cys	Glu	Arg 5	Cys	Cys	Gln	Glu	Gly 10	Pro	Glu	Gly	Cys	Leu 15	His
Ser	Ser	Gly	Gln 20	Gly	Asp	Asp	Gln	Val 25	Lys	Glu	Gly	Cys	Glu 30	Gln	Ala
Val	Cys	Ile 35	Gln	Ser	Thr	His	Glu 40	Leu	Ser	Ala	His	Gly 45	Asp	Glu	Glu
Pro	Ala 50	Arg	Gly	Leu	Ala	Ser 55	Gly	Trp	Phe	Pro	Ala 60	Glu	Glu	His	Arg
Ser 65	Asp	Glu	Gly	His	Ala 70	Lys	Ser	Cys	Glu	Asp 75	Ser	Arg	Asp	Ser	Gly 80
His	His	Glu	Gly	Val 85	Val	Gln	Arg	Asn	Asp 90	Glu	Gly	Trp	Asp	His 95	Arg
Gly	Asp	Val	Arg 100	Gly	His	Phe									

&lt;210&gt; 239

&lt;211&gt; 351

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 239

Thr 1	Trp	Cys	Thr	Thr 5	Thr	Met	Leu	Ala	Ala 10	Arg	Leu	Val	Cys	Leu 15	Arg
----------	-----	-----	-----	----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Thr	Leu	Pro	Ser 20	Arg	Val	Phe	His	Pro 25	Ala	Phe	Thr	Lys	Ala 30	Ser	Pro
Val	Val	Lys 35	Asn	Ser	Ile	Thr	Lys 40	Asn	Gln	Trp	Leu	Leu 45	Thr	Pro	Ser
Arg	Glu 50	Tyr	Ala	Thr	Lys	Thr 55	Arg	Ile	Gly	Ile	Arg 60	Arg	Gly	Arg	Thr
Gly 65	Gln	Glu	Leu	Lys	Glu 70	Ala	Ala	Leu	Glu	Pro 75	Ser	Met	Glu	Lys	Ile 80
Phe	Lys	Ile	Asp	Gln 85	Met	Gly	Arg	Trp	Phe 90	Val	Ala	Gly	Gly	Ala 95	Ala
Val	Gly	Leu	Gly 100	Ala	Leu	Cys	Tyr	Tyr 105	Gly	Leu	Gly	Leu	Ser 110	Asn	Glu
Ile	Gly	Ala 115	Ile	Glu	Lys	Ala	Val 120	Ile	Trp	Pro	Gln	Tyr 125	Val	Lys	Asp
Arg	Ile 130	His	Ser	Thr	Tyr	Met 135	Tyr	Leu	Ala	Gly	Ser 140	Ile	Gly	Leu	Thr
Ala 145	Leu	Ser	Ala	Ile	Ala 150	Ile	Ser	Arg	Thr	Pro 155	Val	Leu	Met	Asn	Phe 160
Met	Met	Arg	Gly	Ser 165	Trp	Val	Thr	Ile	Gly 170	Val	Thr	Phe	Ala	Ala 175	Met
Val	Gly	Ala	Gly 180	Met	Leu	Val	Arg	Ser 185	Ile	Pro	Tyr	Asp	Gln 190	Ser	Pro
Gly	Pro	Lys 195	His	Leu	Ala	Trp	Leu 200	Leu	His	Ser	Gly	Val 205	Met	Gly	Ala
Val	Val 210	Ala	Pro	Leu	Thr	Ile 215	Leu	Gly	Gly	Pro	Leu 220	Leu	Ile	Arg	Ala
Ala 225	Trp	Tyr	Thr	Ala	Gly 230	Ile	Val	Gly	Gly	Leu 235	Ser	Thr	Val	Ala	Met 240
Cys	Ala	Pro	Ser	Glu 245	Lys	Phe	Leu	Asn	Met 250	Gly	Ala	Pro	Leu	Gly 255	Val
Gly	Leu	Gly	Leu 260	Val	Phe	Val	Ser	Ser 265	Leu	Gly	Ser	Met	Phe 270	Leu	Pro
Pro	Thr	Thr 275	Val	Ala	Gly	Ala	Thr 280	Leu	Tyr	Ser	Val	Ala 285	Met	Tyr	Gly
Gly	Leu 290	Val	Leu	Phe	Ser	Met 295	Phe	Leu	Leu	Tyr	Asp 300	Thr	Gln	Lys	Val
Ile 305	Lys	Arg	Ala	Glu	Val 310	Ser	Pro	Met	Tyr	Gly 315	Val	Gln	Lys	Tyr	Asp 320
Pro	Ile	Asn	Ser	Met 325	Leu	Ser	Ile	Tyr	Met 330	Asp	Thr	Leu	Asn	Ile 335	Phe
Met	Arg	Val	Ala 340	Thr	Met	Leu	Ala	Thr 345	Gly	Gly	Asn	Arg	Lys 350	Lys	



<210> 240  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

<400> 240

Arg 1	Val	Ala	Pro	Ala 5	Thr	Val	Val	Gly	Gly 10	Arg	Asn	Ile	Asp	Pro 15	Asn
Glu	Asp	Thr	Lys 20	Thr	Arg	Pro	Arg	Pro 25	Thr	Pro	Arg	Gly	Ala 30	Pro	Met
Phe	Arg	Asn 35	Phe	Ser	Leu	Gly	Ala 40	His	Met	Ala	Thr	Val 45	Glu	Arg	Pro
Pro	Thr 50	Met	Pro	Ala	Val	Tyr 55	His	Ala	Ala	Leu	Met 60	Arg	Arg	Gly	Pro
Pro 65	Asn	Ile	Val	Arg	Gly 70	Ala	Thr	Thr	Ala	Pro 75	Ile	Thr	Pro	Glu	Cys 80
Ser	Asn	Gln	Ala	Arg 85	Cys	Phe	Gly	Pro	Gly 90	Leu	Trp	Ser	Tyr	Gly 95	Ile
Asp	Arg	Thr	Ser 100	Ile	Pro	Ala	Pro	Thr 105	Met	Ala	Ala	Lys	Val 110	Thr	Pro
Ile	Val	Thr 115	Gln	Glu	Pro	Leu	Ile 120	Met	Lys	Phe	Met	Arg 125	Thr	Gly	Val
Leu	Leu 130	Ile	Ala	Met	Ala	Asp 135	Lys	Ala	Val	Lys	Pro 140	Ile	Leu	Pro	Ala
Lys 145	Tyr	Ile													

<210> 241  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<400> 241

Lys 1	Ala	Arg	Arg	Arg 5	Gly	Thr	Met	Ala	Ala 10	Ala	Ala	Asp	Glu	Arg 15	Ser
Pro	Glu	Asp	Gly 20	Glu	Asp	Glu	Glu	Glu 25	Glu	Glu	Gln	Leu	Val 30	Leu	Val
Glu	Leu	Ser 35	Gly	Ile	Ile	Asp	Ser 40	Asp	Phe	Leu	Ser	Lys 45	Cys	Glu	Asn
Lys	Cys 50	Lys	Val	Leu	Gly	Ile 55	Asp	Thr	Glu	Arg	Pro 60	Ile	Leu	Gln	Val
Asp 65	Ser	Cys	Val	Phe	Ala 70	Gly	Glu	Tyr	Glu	Asp 75	Thr	Leu	Gly	Thr	Cys 80
Val	Ile	Phe	Glu	Glu 85	Asn	Val	Glu	His	Ala 90	Asp	Thr	Glu	Gly	Asn 95	Asn
Lys	Thr	Val	Leu	Lys	Tyr	Lys	Cys	His	Thr	Met	Lys	Lys	Leu	Ser	Met

100						105						110			
Thr	Arg	Thr	Leu	Leu	Thr	Glu	Lys	Lys	Glu	Gly	Glu	Glu	Asn	Ile	Gly
		115					120					125			
Gly	Val	Glu	Trp	Leu	Gln	Ile	Lys	Asp	Asn	Asp	Phe	Ser	Tyr	Arg	Pro
	130					135					140				
Asn	Met	Ile	Cys	Asn	Phe	Leu	His	Glu	Asn	Glu	Asp	Glu	Glu	Val	Val
145					150					155					160
Ala	Ser	Ala	Pro	Asp	Lys	Ser	Leu	Glu	Leu	Glu	Glu	Glu	Glu	Ile	Gln
				165					170					175	
Met	Asn	His	Arg	Phe	Lys	Pro	Gly	Phe	Val	Glu	Pro	Gly	Glu	Pro	Ile
			180					185					190		
Ala	Pro	Trp	Glu												
		195													

&lt;210&gt; 242

&lt;211&gt; 156

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 242

Pro	Pro	Ala	Pro	Ala	Leu	Arg	His	Arg	Glu	Thr	Arg	Arg	Pro	Val	Ala
1				5					10					15	
Ser	Leu	His	Val	Gly	Thr	Gly	Ala	Leu	Gly	Ala	Arg	Ser	His	Pro	Pro
			20					25					30		
Ala	Gly	Ser	Arg	His	Leu	Glu	Phe	Trp	Gln	Lys	Gln	Phe	Ala	Arg	Arg
		35					40					45			
Gly	Ala	Asp	Gly	Gln	Glu	Pro	Asn	Lys	Leu	Leu	Arg	Leu	Gly	Ala	Glu
	50					55					60				
Ala	Arg	Thr	Gln	Asp	Gly	Gly	Ser	Gly	Arg	Ala	Trp	Pro	Val	Thr	Arg
					70					75					80
Arg	Arg	Gly	Ala	Ala	Gly	Pro	Trp	Arg	Arg	Arg	Arg	Thr	Ser	Gly	Val
				85					90					95	
Gln	Arg	Thr	Glu	Lys	Thr	Arg	Lys	Arg	Arg	Ser	Ser	Trp	Phe	Trp	Trp
			100					105					110		
Asn	Tyr	Gln	Glu	Leu	Leu	Ile	Gln	Thr	Ser	Ser	Gln	Asn	Val	Lys	Ile
		115					120					125			
Asn	Ala	Arg	Phe	Trp	Ala	Leu	Thr	Leu	Arg	Gly	Pro	Phe	Cys	Lys	Trp
	130					135					140				
Thr	Ala	Val	Ser	Leu	Leu	Gly	Ser	Met	Lys	Thr	Leu				
145					150					155					

&lt;210&gt; 243

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 243

Arg 1	Arg	Leu	Glu	Val 5	Ser	Tyr	Arg	Gln	His 10	His	Phe	Arg	Val	Ser 15	Leu
Ala	Pro	Trp	Ser 20	Lys	Met	Ala	Asp	Glu 25	Ala	Thr	Arg	Arg	Val 30	Val	Ser
Glu	Ile	Pro 35	Val	Leu	Lys	Thr	Asn 40	Ala	Gly	Pro	Arg	Asp 45	Arg	Glu	Leu
Trp	Val 50	Gln	Arg	Leu	Lys	Glu 55	Glu	Tyr	Gln	Ser	Leu 60	Ile	Arg	Tyr	Val
Glu 65	Asn	Asn	Lys	Asn	Ala 70	Asp	Asn	Asp	Trp	Phe 75	Arg	Leu	Glu	Ser	Asn 80
Lys	Glu	Gly	Thr	Arg 85	Trp	Phe	Gly	Lys	Cys 90	Trp	Tyr	Ile	His	Asp 95	Leu
Leu	Lys	Tyr	Glu 100	Phe	Asp	Ile	Glu	Phe 105	Asp	Ile	Pro	Ile	Thr 110	Tyr	Pro
Thr	Thr	Ala 115	Pro	Glu	Ile	Ala	Val 120	Pro	Glu	Leu	Asp	Gly 125	Lys	Thr	Ala
Lys	Met 130	Tyr	Arg												

&lt;210&gt; 244

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 244

Leu 1	Phe	Ala	Ile	Ser 5	Tyr	Ser	Val	Leu	Pro 10	Val	His	Leu	Cys	Cys 15	Leu
Ser	Ile	Gln	Leu 20	Arg	Asn	Cys	Asn	Phe 25	Trp	Gly	Ser	Ser	Arg 30	Ile	Cys
Asp	Arg	Asn 35	Val	Lys	Leu	Asp	Val 40	Lys	Leu	Ile	Phe	Gln 45	Glu	Val	Met
Asp	Ile 50	Pro	Ala	Phe	Ser	Lys 55	Pro	Pro	Ser	Ser	Phe 60	Leu	Val	Gly	Leu
Gln 65	Ser	Glu	Pro	Ile	Val 70	Val	Ser	Ile	Leu	Val 75	Val	Leu	His	Ile	Pro 80
Asp	Lys	Gly	Leu	Ile 85	Phe	Leu	Leu	Gln	Ser 90	Leu	His	Pro	Gln	Leu 95	Thr
Ile	Ser	Gly	Ser 100	Gly	Val	Ser	Leu	Gln 105	His	Arg	Asp	Leu	Arg 110	His	Asn
Thr	Ser	Arg 115	Gly	Phe	Ile	Arg	His 120	Leu	Gly	Pro	Gly	Arg 125	Lys	Arg	Asn
Ala	Glu 130	Val	Val	Leu	Pro	Val 135	Ala	Tyr	Leu	Lys	Ala 140	Pro	Ser	Ser	Leu
Leu	Trp	Glu	Asp	Glu	Thr	Leu	Gly	Cys	Cys	Lys	Thr	Ser	Phe	Glu	

155

<400> 245

```
<210> 246
<211> 285
<212> PRT
<213> Homo sapiens
```

<400> 246

Ala 1	Val	Arg	Arg	Arg 5	Gly	Ala	Leu	Ser	Leu 10	Ser	Val	Gly	Ala	Ala 15	Cys
Gly	Leu	Val	Ala 20	Leu	Trp	Gln	Arg	Arg 25	Arg	Gln	Asp	Ser	Gly 30	Thr	Met
Ser	Gly	Phe 35	Ser	Thr	Glu	Glu	Arg 40	Ala	Ala	Pro	Phe	Ser 45	Leu	Glu	Tyr
Arg	Val 50	Phe	Leu	Lys	Asn	Glu 55	Lys	Gly	Gln	Tyr	Ile 60	Ser	Pro	Phe	His
Asp 65	Ile	Pro	Ile	Tyr	Ala 70	Asp	Lys	Asp	Val	Phe 75	His	Met	Val	Val	Glu 80
Val	Pro	Arg	Trp	Ser 85	Asn	Ala	Lys	Met	Glu 90	Ile	Ala	Thr	Lys	Asp 95	Pro
Leu	Asn	Pro	Ile 100	Lys	Gln	Asp	Val	Lys 105	Lys	Gly	Lys	Leu	Arg 110	Tyr	Val
Ala	Asn	Leu 115	Phe	Pro	Tyr	Lys	Gly 120	Tyr	Ile	Trp	Asn	Tyr 125	Gly	Ala	Ile
Pro	Gln 130	Thr	Trp	Glu	Asp	Pro 135	Gly	His	Asn	Asp	Lys 140	His	Thr	Gly	Cys

Cys 145	Gly	Asp	Asn	Asp	Pro 150	Ile	Asp	Val	Cys	Glu 155	Ile	Gly	Ser	Lys	Val 160
Cys	Ala	Arg	Gly	Glu 165	Ile	Ile	Gly	Val	Lys 170	Val	Leu	Gly	Ile	Leu 175	Ala
Met	Ile	Asp	Glu 180	Gly	Glu	Thr	Asp	Trp 185	Lys	Val	Ile	Ala	Ile 190	Asn	Val
Asp	Asp	Pro 195	Asp	Ala	Ala	Asn	Tyr 200	Asn	Asp	Ile	Asn	Asp 205	Val	Lys	Arg
Leu	Lys 210	Pro	Gly	Tyr	Leu	Glu 215	Ala	Thr	Val	Asp	Trp 220	Phe	Arg	Arg	Tyr
Lys 225	Val	Pro	Asp	Gly	Lys 230	Pro	Glu	Asn	Glu	Phe 235	Ala	Phe	Asn	Ala	Glu 240
Phe	Lys	Asp	Lys	Asp 245	Phe	Ala	Ile	Asp	Ile 250	Ile	Lys	Ser	Thr	His 255	Asp
His	Trp	Lys	Ala 260	Leu	Val	Thr	Lys	Lys 265	Thr	Asn	Gly	Lys	Arg 270	Ile	Met
Leu	Ile	Val 275	Gln	Leu	Phe	Val	Gly 280	Pro	Leu	Lys	Val	Cys 285			

&lt;210&gt; 247

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 247

Thr 1	Lys	Gly	Leu	Arg 5	Ile	Ala	Gln	Ala	Gln 10	Leu	Cys	Pro	Gly	Ser 15	Pro
Arg	Cys	Arg	Ser 20	Gln	Ser	Ile	Ser	Arg 25	Arg	Ala	Cys	Ala	Leu 30	Cys	Leu
Arg	Pro	Ser 35	Thr	Gln	Pro	Asn	Thr 40	Thr	Tyr	Leu	Arg	Lys 45	Pro	Gly	Gly
Arg	Lys 50	Arg	Ala	Val	Gly	His 55	Lys	Ser	Pro	Ala	Glu 60	Thr	Arg	Val	Pro
Ala 65	Ser	Val	Gln	Arg	Ser 70	Gln	Pro	Pro	Arg	Ala 75	His	Arg	Lys	Ser	Cys 80
Leu	Ala	Ser	Leu	Gly 85	Leu	Cys	Lys	Asn	Asn 90	Lys	Cys	Leu	Ser		

&lt;210&gt; 248

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 248

Asp 1	Pro	Arg	Pro	Ser 5	Arg	Ile	Gln	His	Ile 10	Ser	Gly	Asn	Pro	Ala 15	Gly
----------	-----	-----	-----	----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Ala	Ser	Glu	Arg 20	Leu	Ala	Ile	Arg	Ala 25	Gln	Leu	Lys	Arg	Glu 30	Tyr	Leu
Leu	Gln	Tyr 35	Asn	Asp	Pro	Asn	Arg 40	Arg	Gly	Leu	Ile	Glu 45	Asn	Pro	Ala
Leu	Leu 50	Arg	Trp	Ala	Tyr	Ala 55	Arg	Thr	Ile	Asn	Val 60	Tyr	Pro	Asn	Phe
Arg 65	Pro	Thr	Pro	Lys	Asn 70	Ser	Leu	Met	Gly	Ala 75	Leu	Cys	Gly	Phe	Gly 80
Pro	Leu	Ile	Phe	Ile 85	Tyr	Tyr	Ile	Ile	Lys 90	Thr	Glu	Arg	Asp	Arg 95	Lys
Glu	Lys	Leu	Ile 100	Gln	Glu	Gly	Lys	Leu 105	Asp	Arg	Thr	Phe	His 110	Leu	Ser

Tyr

<210> 249  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 249

Val 1	Phe	Arg	Ser	Gly 5	Ser	Glu	Ile	Arg	Ile 10	Asp	Ile	Tyr	Cys	Ser 15	Cys
Ile	Gly	Pro	Thr 20	Lys	Gln	Gly	Arg	Ile 25	Phe	Asp	Glu	Pro	Ser 30	Ala	Val
Gly	Ile	Val 35	Val	Leu	Lys	Gln	Val 40	Leu	Ser	Phe	Gln	Leu 45	Gly	Ser	Tyr
Gly	Gln 50	Pro	Leu	Ala	Cys	Ala 55	Arg	Arg	Val	Ser	Gly 60	Asp	Met	Leu	Tyr
Ser 65	Ala	Gly	Ser	Arg	Val 70	Ser	Gly	Arg	Val	Arg 75	Arg	Leu	Asp	Gly	Leu 80
Tyr	Phe	Gly	Asn	Asp 85	Ile	Leu	Ala	Asn	Gln 90	Gly	Thr	Ile	Ala	Pro 95	Ala

Arg Phe

<210> 250  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 250

Thr 1	Gln	Val	Met	Val 5	Gln	Ser	Met	Phe	Ala 10	Pro	Thr	Asp	Thr	Ser 15	Asp
Met	Glu	Ala	Val 20	Trp	Lys	Glu	Ala	Lys 25	Pro	Glu	Asp	Leu	Met 30	Asp	Ser
Lys	Leu	Arg 35	Cys	Val	Phe	Glu	Leu 40	Pro	Ala	Glu	Asn	Asp 45	Lys	Pro	His

Asp	Val	Glu	Ile	Asn	Lys	Ile	Ile	Ser	Thr	Thr	Ala	Ser	Lys	Thr	Glu
	50					55					60				
Thr	Pro	Ile	Val	Ser	Lys	Ser	Leu	Ser	Ser	Ser	Leu	Asp	Asp	Thr	Glu
65					70					75					80
Val	Lys	Lys	Val	Met	Glu	Glu	Cys	Lys	Arg	Leu	Gln	Gly	Glu	Val	Gln
				85					90					95	
Arg	Leu	Arg	Glu	Glu	Asn	Lys	Gln	Phe	Lys	Glu	Glu	Asp	Gly	Leu	Arg
			100					105					110		
Met	Arg	Lys	Thr	Val	Gln	Ser	Asn	Ser	Pro	Ile	Ser	Ala	Leu	Ala	Pro
		115					120					125			
Thr	Gly	Lys	Glu	Glu	Gly	Leu	Ser	Thr	Arg	Leu	Leu	Ala	Leu	Val	Val
	130					135					140				
Leu	Phe	Phe	Ile	Val	Gly	Val	Ile	Ile	Gly	Lys	Ile	Ala	Leu		
145					150					155					

&lt;210&gt; 251

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 251

Val	Asn	Lys	Ala	Leu	Pro	Phe	Ile	Ser	Lys	Ala	Leu	Gly	Gln	Ser	Val
1				5					10					15	
Asn	Thr	Arg	Leu	Ser	Leu	Met	Thr	Ser	Thr	Ser	Asp	Ala	Ala	Thr	Val
			20					25					30		
Gln	Phe	Leu	Trp	Ala	Ser	Asp	Ser	Val	His	Gln	Ser	Gln	Gly	Ala	Asp
		35					40					45			
Gly	Leu	Asp	Arg	Thr	Glu	Asp	Thr	Glu	Ser	Ser	Leu	Gly	Arg	Glu	Trp
	50					55					60				
Ala	Thr	Trp	Gly	Leu	Leu	Cys	Gly	Ala	Asp	Arg	Thr	Pro	Gln	His	Ala
65					70					75					80
Gly	Leu	Gln	Leu	Pro	Lys	Gly	Gln	His	Gln	Gln	Ala	Arg	Lys	Gly	Val
				85					90					95	
Ile	Leu	Arg	Glu	Val	Ile	Gln	His	His	Val	Pro	Arg	Pro	Thr	Asn	Val
			100					105					110		

&lt;210&gt; 252

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 252

Ser	Lys	Gly	Cys	Ser	Ile	Thr	Glu	Thr	Val	Thr	Val	Asp	Pro	Gly	Ser
1				5					10					15	
Ile	Ile	Pro	Leu	Leu	Gly	Leu	Thr	Gln	Tyr	Arg	Arg	Gly	Ala	Val	Val
			20					25					30		
Phe	Thr	Leu	Lys	His	Thr	Phe	Leu	Ser	Asp	Gly	Phe	Arg	Asn	Leu	Arg

35						40					45				
Phe	Val	Val	Thr	Thr	Ser	Val	Lys	Gly	Pro	Leu	Asn	Leu	Arg	Ser	Val
	50					55					60				
Gly	Gly	Ser	Arg	Thr	Arg	Ile	Cys	Ser	Ser	Ser	Pro	Trp	Pro	Leu	Arg
65					70					75					80
Arg	Thr	Pro	Ser	Glu	Arg	Gln	Arg	Arg	Ala	Gly	Gly	Gly	Leu	Leu	Ala
				85					90					95	
Gly	Gly	Gly	Gly	Arg	Trp	Arg	Glu	Gly	Arg	Gly	Ser	Glu	Phe	Ala	Ser
			100					105					110		
Leu	Leu	Phe	Leu	Val	Arg	Leu	Cys	Ser	Thr	Thr	Phe	Leu	Cys	Trp	Gln
		115					120					125			
Ile	Cys	Phe	Gln	Ile	Asp	Phe									
	130					135									

&lt;210&gt; 253

&lt;211&gt; 189

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

Ser	Met	Gln	Ser	Ala	Val	Ser	Phe	Phe	Phe	Phe	Ser	Leu	Asp	Gln	Lys
1				5					10					15	
Lys	Ile	Cys	Leu	Pro	Thr	Ile	Ser	Leu	Val	Val	Trp	Pro	Thr	Val	Thr
			20					25					30		
Ile	Phe	Leu	Cys	Val	Gln	Arg	His	Ile	Gly	Phe	Ala	Phe	Asn	Asp	Leu
		35					40					45			
Leu	Arg	Leu	Glu	Asn	Thr	Ile	Lys	Thr	Asn	Cys	Ser	Ala	Thr	Gly	Gln
	50					55					60				
Val	Val	Tyr	Tyr	Gln	Ile	Ile	Thr	Ser	Arg	Cys	Gln	Leu	His	Ile	Glu
65					70					75					80
Ser	Phe	Met	Lys	Phe	Ile	Asn	Lys	Glu	Leu	Phe	Phe	Leu	Cys	Gly	Phe
				85					90					95	
Asn	Lys	Ser	Ser	Arg	Ile	Val	Gln	Ser	Leu	Val	Asn	Val	Ile	Leu	Ile
			100					105					110		
Ile	Pro	Leu	Asn	Phe	Ile	Cys	Cys	Cys	Tyr	Leu	Leu	Lys	Tyr	Asp	Leu
		115					120					125			
Phe	Arg	Leu	Leu	Ile	Pro	Leu	Ile	Gln	Glu	Met	Pro	Arg	Gly	Ile	Pro
	130					135					140				
Trp	Gly	Asn	Gly	Ala	Ser	Tyr	Ser	Val	Asn	Phe	Ser	Ser	Phe	Thr	Phe
145					150					155					160
Ala	Asn	Ile	Met	Ala	Glu	Phe	Phe	Leu	Ser	Leu	Val	Arg	Gln	Leu	Leu
				165					170					175	
Thr	Glu	Phe	Phe	Ile	Leu	Thr	Ile	Leu	Ser	His	Gly	Ile			
			180					185							



<210> 254  
 <211> 300  
 <212> PRT  
 <213> Homo sapiens

<400> 254

Lys 1	Ser	Ile	Trp	Lys 5	Gln	Ile	Cys	Gln	His 10	Lys	Asn	Val	Val	Glu 15	Gln
Ser	Leu	Thr	Arg 20	Lys	Arg	Arg	Asp	Ala 25	Asn	Ser	Leu	Pro	Leu 30	Pro	Ser
Arg	His	Arg 35	Pro	Pro	Pro	Pro	Ala 40	Ser	Lys	Pro	Pro	Pro 45	Ala	Leu	Arg
Cys	Leu 50	Ser	Asp	Gly	Val	Arg 55	Leu	Arg	Gly	His	Gly 60	Glu	Asp	Glu	Gln
Ile 65	Leu	Val	Leu	Asp	Pro 70	Pro	Thr	Asp	Leu	Lys 75	Phe	Lys	Gly	Pro	Phe 80
Thr	Asp	Val	Val	Thr 85	Thr	Asn	Leu	Lys	Leu 90	Arg	Asn	Pro	Ser	Asp 95	Arg
Lys	Val	Cys	Phe 100	Lys	Val	Lys	Thr	Thr 105	Ala	Pro	Arg	Arg	Tyr 110	Cys	Val
Arg	Pro	Asn 115	Ser	Gly	Ile	Ile	Asp 120	Pro	Gly	Ser	Thr	Val 125	Thr	Val	Ser
Val	Met 130	Leu	Gln	Pro	Phe	Asp 135	Tyr	Asp	Pro	Asn	Glu 140	Lys	Ser	Lys	His
Lys 145	Phe	Met	Val	Gln	Thr 150	Ile	Phe	Ala	Pro	Pro 155	Asn	Thr	Ser	Asp	Met 160
Glu	Ala	Val	Trp	Lys 165	Glu	Ala	Lys	Pro	Asp 170	Glu	Leu	Met	Asp	Ser	Lys
Leu	Arg	Cys	Val 180	Phe	Glu	Met	Pro	Asn 185	Glu	Asn	Asp	Lys	Leu 190	Asn	Asp
Met	Glu	Pro 195	Ser	Lys	Ala	Val	Pro 200	Leu	Asn	Ala	Ser	Lys 205	Gln	Asp	Gly
Pro	Met 210	Pro	Lys	Pro	His	Ser 215	Val	Ser	Leu	Asn	Asp 220	Thr	Glu	Thr	Arg
Lys 225	Leu	Met	Glu	Glu	Cys 230	Lys	Arg	Leu	Gln	Gly 235	Glu	Met	Met	Lys	Leu 240
Ser	Glu	Glu	Asn	Arg 245	His	Leu	Arg	Asp	Glu 250	Gly	Leu	Arg	Leu	Arg 255	Lys
Val	Ala	His	Ser 260	Asp	Lys	Pro	Gly	Ser 265	Thr	Ser	Thr	Ala	Ser 270	Phe	Arg
Asp	Asn	Val 275	Thr	Ser	Pro	Leu	Pro 280	Ser	Leu	Leu	Val	Val 285	Ile	Ala	Ala
Ile	Phe 290	Ile	Gly	Phe	Phe	Leu 295	Gly	Lys	Phe	Ile	Leu 300				

<210> 255  
 <211> 247  
 <212> PRT  
 <213> Homo sapiens

<400> 255

Gly 1	Ser	Ser	Gly	Ser 5	Arg	Phe	Glu	Val	Val 10	Val	Val	Leu	Glu	Glu 15	Arg
Arg	Gly	Gly	Arg 20	Gly	Arg	Gly	Met	Gly 25	Arg	Gly	Asp	Gly	Phe 30	Asp	Ser
Arg	Gly	Lys 35	Arg	Glu	Phe	Asp	Arg 40	His	Ser	Gly	Ser	Asp 45	Arg	Ser	Gly
Leu	Lys 50	His	Glu	Asp	Lys	Arg 55	Gly	Gly	Ser	Gly	Ser 60	His	Asn	Trp	Gly
Thr 65	Val	Lys	Asp	Glu	Leu 70	Thr	Glu	Ser	Pro	Lys 75	Tyr	Ile	Gln	Lys	Gln 80
Ile	Ser	Tyr	Asn	Tyr 85	Ser	Asp	Leu	Asp	Gln 90	Ser	Asn	Val	Thr	Glu 95	Glu
Thr	Pro	Glu	Gly 100	Glu	Glu	His	His	Pro 105	Val	Ala	Asp	Thr	Glu 110	Asn	Lys
Glu	Asn	Glu 115	Val	Glu	Glu	Val	Lys 120	Glu	Glu	Gly	Pro	Lys 125	Glu	Met	Thr
Leu	Asp 130	Glu	Trp	Lys	Ala	Ile 135	Gln	Asn	Lys	Asp	Arg 140	Ala	Lys	Val	Glu
Phe 145	Asn	Ile	Arg	Lys	Pro 150	Asn	Glu	Gly	Ala	Asp 155	Gly	Gln	Trp	Lys	Lys 160
Gly	Phe	Val	Leu	His 165	Lys	Ser	Lys	Ser	Glu 170	Glu	Ala	His	Ala	Glu 175	Asp
Ser	Val	Met	Asp 180	His	His	Phe	Arg	Lys 185	Pro	Ala	Asn	Asp	Ile 190	Thr	Ser
Gln	Leu	Glu 195	Ile	Asn	Phe	Gly	Asp 200	Leu	Gly	Arg	Pro	Gly 205	Arg	Gly	Gly
Arg	Gly 210	Gly	Arg	Gly	Gly	Arg 215	Gly	Arg	Gly	Gly	Arg 220	Pro	Asn	Arg	Gly
Ser 225	Arg	Thr	Asp	Lys	Ser 230	Ser	Ala	Ser	Ala	Pro 235	Asp	Val	Asp	Asp	Pro 240
Glu	Ala	Phe	Pro	Ala 245	Leu	Ala									

<210> 256  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 256

```
<210> 257
<211> 220
<212> PRT
<213> Homo sapiens
```

Pro 1	Gly	Arg	Gly	Ser 5	Met	Tyr	Asp	Arg	Met 10	Arg	Arg	Gly	Gly	Asp 15	Gly
Tyr	Asp	Gly	Gly 20	Tyr	Gly	Gly	Phe	Asp 25	Asp	Tyr	Gly	Gly	Tyr 30	Asn	Asn
Tyr	Gly	Tyr 35	Gly	Asn	Asp	Gly	Phe 40	Asp	Asp	Arg	Met	Arg 45	Asp	Gly	Arg
Gly	Met 50	Gly	Gly	His	Gly	Tyr 55	Gly	Gly	Ala	Gly	Asp 60	Ala	Ser	Ser	Gly
Phe 65	His	Gly	Gly	His	Phe 70	Val	His	Met	Arg	Gly 75	Leu	Pro	Phe	Arg	Ala 80
Thr	Glu	Asn	Asp	Ile 85	Ala	Asn	Phe	Phe	Ser 90	Pro	Leu	Asn	Pro	Ile 95	Arg
Val	His	Ile	Asp 100	Ile	Gly	Ala	Asp	Gly 105	Arg	Ala	Thr	Gly	Glu 110	Ala	Asp
Val	Glu	Phe 115	Val	Thr	His	Glu	Asp 120	Ala	Val	Ala	Ala	Met 125	Ser	Lys	Asp
Lys	Asn 130	Asn	Met	Gln	His	Arg 135	Tyr	Ile	Glu	Leu	Phe 140	Leu	Asn	Ser	Thr
Pro 145	Gly	Gly	Gly	Ser	Gly 150	Met	Gly	Gly	Ser	Gly 155	Met	Gly	Gly	Tyr	Gly 160
Arg	Asp	Gly	Met	Asp 165	Asn	Gln	Gly	Gly	Tyr 170	Gly	Ser	Val	Gly	Arg 175	Met
Gly	Met	Gly	Asn 180	Asn	Tyr	Ser	Gly	Gly 185	Tyr	Gly	Thr	Pro	Asp 190	Gly	Leu
Gly	Gly	Tyr 195	Gly	Arg	Gly	Gly	Gly 200	Gly	Ser	Gly	Gly	Tyr 205	Tyr	Gly	Gln
Gly	Gly 210	Met	Ser	Gly	Gly	Gly 215	Trp	Arg	Gly	Met	Tyr 220				

<210> 258  
 <211> 1105  
 <212> DNA  
 <213> Homo sapiens

<400> 258

```

aatgagcctg gtgtagatg agttttacag ctactcagg gtggtgggtg tctctgctgt 60
tctgggtact ggattagatg aactctttgt gcaagttacc agtgctgccg aagaatatga 120
aagggagtat cgtcctgaat atgaacgtct gaaaaaatca ctggccaacg cagagagcca 180
acagcagaga gaacaactgg aacgccttcg aaaagatatg ggttctgtag ccttggatgc 240
agggaactccc aaagacagct tatctcctgt gctgcaccct tctgatttga tcctgactcg 300
accaacattg gaagcagaca gcgatactga tgacattgac cacagagtta cagaggaaaag 360
ccatgaagag ccagcattcc agaattttat gcaagaatcg atggcacaat actggaagag 420
aaacaataaaa taggagactt tagcacactt cacttgtttc tagaagtcca gaattttgga 480
cctccacgtg aaagaactgt tcttacctct gaactggggg ctcccataag ggataatttt 540
cctcagagta gcaaagtttc tcttattaga gaaatcttgt gactcagatg aagtcaggga 600
tagaagaccc ttggacctgg cagggttaatg ctgattatct cttggccttt cccttgattt 660
tatgcaagga aggatatact gagctgatac tcttccaagc ctacaacttc aagttttatc 720
atttgaactc aagtactttt gctgctgagg aatggaatca aaagaacgta gtctcctggg 780
aaccacctca gatctctatt attaggctag atgtatagcc tctactcccc cagcttcttg 840
ctcttgacct tgcactgtaa gttgcccttc tattagcagc caaggaaaag ggaaacatga 900
gcttatccag aacggtggca gagtctcctt ggcaatcaac caacgttgct atgaaatatg 960
cctcacactg tatagctcat tataggacgt caggtttgtt gaaaaaagtg ggcaagacat1020
gattaatgaa tcagaatcct gtttcattgg tgacttggat aaagactttt taatttttaa1080
aaaaaaaaa aaaaaaaaaa aaaaaa

```

1105

<210> 259  
 <211> 1088  
 <212> DNA  
 <213> Homo sapiens

<400> 259

```

attccaaaca tggcggctcc actagggggg atgttttctg ggcagccacc cgggtccccct 60
caggccccgc cgggccttcc gggccaagct tcgttcttc aggcagctcc aggcgctcct 120
agaccttcca gcagtacttt ggtggacgag ttggagtcac ctttcgaggc ttgctttgca 180
tctctggtga gtcaggacta tgtcaatggc accgatcagg aagaaattcg aaccgggtgtt 240
gatcagtgtg tccagaagtt tctggatatt gcaagacaga cagaatgttt tttcttaca 300
aaaagattgc agttatctgt ccagaaacca gagcaagtta tcaaagagga tgtgtcagaa 360
ctaagggaatg aattacagcg gaaagatgca ctagtccaga agcacttgac aaagctgagg 420
cattggcagc aggtgctgga ggacatcaac gtgcagcaca aaaagccccg cgacatccct 480
cagggctcct tggcctacct ggagcaggca tctgccaaca tccctgcacc tctgaagcca 540
acgtgagcaa agggcagagg cagttggcct atgagtgggc tgatgcgtga ggttggccac 600
acattccttc ctgtggactt gacatttttg aagaactctt tgccagataa tgagttcatt 660
ttagttttat gctccattg aaaaattttc cactattttt ataagctgtt aatttcttga 720
gtactttata acatgtctgt agcttgata aaccaagtaa gtattttttt tttgtcttta 780
gcgaagttaa gactgtgaat atgatgacac agattctttt ttatggtggc tttgtctgtt 840
ttaaattttt gcatgacttt tcatcttttt atgtgtgttt cctgtagttt gatccgaagg 900
aaaagagtat agtagcctga gaatcaggag atgggagttt tagtcgtagg ccttatgata 960
attacccccg ggtggtgtgt agaaaagtat gtaaatttgc tctgttttaa gactttgaac1020
tacctcaaga agaggaatct aatacaatat ttgtaatgtt aaaaaaaaaa aaaaaaaaaa1080
aaaaaaaaa

```

1088

<210> 260  
 <211> 3292  
 <212> DNA  
 <213> Homo sapiens

<400> 260

atgccgaact tctgcgtgc cccaactgc acgcggaaga gcacgcagtc cgacttggcc 60

```

ttcttcaggt tcccgcggga ccttgccaga tgccagaagt ggggtggagaa ctgtaggaga 120
gcagacttag aagataaaac acctgatcag ctaataaaac attatcgatt atgtgccaaa 180
cattttgaga cctctatgat ctgtagaact agtccttata ggacagttct tcgagataat 240
gcaataccaa caatatttga tcttaccagt catttgaaca acccacatag tagacacaga 300
aaacgaataa aagaactgag tgaagatgaa atcaggacac tgaaacagaa aaaaattgat 360
gaaacttctg agcaggaaca aaaacataaa gaaaccaaca atagcaatgc tcagaacccc 420
agcgaagaag aggggtgaagg gcaagatgag gacattttac ctctaaccct tgaagagaag 480
gaaaacaaag aatacctaaa atctctatct gaaatcttga ttctgatggg aaagcaaaac 540
atacctctgg atggacatga ggctgatgaa atcccagaag gtctctttac tccagataac 600
tttcaggcac tgctggagtg tcggataaat tctggtgaag aggttctgag aaagcgggtt 660
gagacaacag cagttaacac gttgttttgt tcaaaaacac agcagaggca gatgctagag 720
atctgtgaga gctgtattcg agaagaaact ctgagggaag tgagagactc acacttcttt 780
tccattatca ctgacgatgt agtggacata gcaggggaag agcacctacc tgtgttggtg 840
aggtttgttg atgaatctca taacctaaga gaggaattta taggcttcct gccttatgaa 900
gccgatgcag aaattttggc tgtgaaattt cacactatga taactgagaa gtggggatta 960
aatatggagt attgtcgtgg ccagggttac attgtctcta gtggattttc ttccaaaatg 1020
aaagtgtgtg cttctagact tttagagaaa tatccccaag ctatctacac actctgctct 1080
tctgtgcct taaatatgtg gttggcaaaa tcagtacctg ttatgggagt atctgttgca 1140
ttaggacaac ttgaggaagt ttgttctttt ttccatcnga tcaccacaac tgcttttaga 1200
acttgacaac gtaattgctg ttctttttca gaacagtaaa gaaaggggta aagaactgaa 1260
ggaaatctgc cattctcagt ggacaggcag gcatgatgct tttgaaattt tagtggaa 1320
cctgcaagca cttgttttat gtttagatgg tataaatagt gacacaaata ttagnatggg 1380
aataactata tagctggccg agcatttngt actctgcagt gcagtgtcag attttgattt 1440
cattgttact attgttgttc ttaaaaatgt cctatctttt acaagagcct ttgggaaaaa 1500
cctnccangg ggcaaacctc gtgatgtctt ctttgcgccc ggtagcttga ctngcagtac 1560
tggnncattca cntcaacgaa gtgagtggga aaatatnnga agtttatcat gaattttggt 1620
ttgaggaagc cacaatttgg gcaaccaaac ttgatattca aatgaaactc cctgggaaat 1680
tccgcagagc tcaccnagg gtaacttgga atctcagcta acnctctgag agttactata 1740
aagaaaccn taagtgtccc aacagtggag cacattattc aggaacttaa agatataatt 1800
tcagaacagc acctcaaagc tcttaaatgc ttatctctgg taccctcagt catgggacaa 1860
ctcaaattca atacgntcng gaggaacacc atgctgacat gtatagaagt gacttaccac 1920
atcctgacac gctgtcagct gagcttcatt gttggagaat caaatggaaa cacaggggga 1980
aagatataga gcttccgtcc accatctatg aagccctcca cctgcctgac atcaagtttt 2040
ttcctaattg gtatgcattg ctgaaggctc tgtgtattct tcctgtgatg aaggttgaga 2100
atgagcggtg tgaaaaatgg acgaaaagcg ctttaaagca tatttgaggg taatttgagg 2160
cagacccaaa ggtcaagtaa cttggctttt gctttaacat aaattttgga tattaaaaa 2220
cgacctggat ttaatgggtg acacatatat taaactctat acaagtaagt cagagcttcc 2280
tacagataat tccgaaactg tggnaaaata cctaagagac ttttaaaaaa aggttttctt 2340
atatttgata tttggaagaa aaagccgtaa ggtgtatgta gaccacttaa tcaactaaat 2400
tctttgccta taggactcca ttgaatacat tagccattga taatctacct gtttaaattg 2460
cccctgtttg aactctcaag ctttgaagac ctacctgttc ttccagaaga gaacgttgaa 2520
agtgccatgt ttccnttttg cgtgatctct gttgatggca ctctggaatt gtttcagtta 2580
agtcatttta gacatagcat ttattatcac tgtggnatct ctacttgttg ggtgttatga 2640
attctttgna agnaaatata ttttngaaga ggtgtgggna ggnaaggaat acnattttat 2700
naaaatgttg tagtgnaagn ccacaaattn gacctttnga ctaatangga gttttaagta 2760
tngttaaaaa tnctatactg gnnacagntt acaagaaatt accggagaaa agcttgtgag 2820
ctcaccnaaa caaggnattt ncagtgtaga ttttgcntt tcttgaacnt tnaaagaaan 2880
caaatganca aagtttgaat nggaaaagcc tgctgttgtt ccnacatctc ngttgctgtt 2940
nntacanttc cnnntttgtg gagnccacn atcttnccta agctttttna gcanggtata 3000
tngttgaaca cttctngttt catggttgag acagaatcag aggccatgga tactgacaac 3060
tgatttgtct gttttttttc tctgtctttn ttccatgact cttatatact gcctcatctt 3120
gatttataag cnaaaancct gganaaacct ancaaaataa gtgttgtggt ttatctagaa 3180
aaatatggaa aatattgctg ttatttttgg tgaagaaaat cnaattttgt atagtttatt 3240
tcaatctaaa taaaatgtga attttgttta aaaaaaaaaa aaaaaaaaaa aa 3292

```

&lt;210&gt; 261

&lt;211&gt; 1196

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 261

ggtagaaaat gcaataaatt ctgggacaat gccagacct ctggcataga ggagccttct 60

```

gagacaaagg gttctatgca aaaaagcaaa ttcaaataa agttggttcc tgaagaagaa 120
accactgcct cagaaaatac agagataacc tctgaaaggc agaaagaggg catcaaatta 180
acaatcagga tatcaagtcg gaaaaagaag cccgattctc cccccaaggt tctagaacca 240
gaaaacaagc aagagaagac agaaaaggaa gaggagaaaa caaatgtggg tcgtacttta 300
agaagatctc caagaatata tagaccact gcaaaagtgg ctgagatcag agatcagaaa 360
gctgataaaa aaagagggga aggagaagat gaggtggaag aagagtcaac agctttgcaa 420
aaaactgaca aaaaggaaat tttgaaaaaa tcagagaaaag atacaaattc taaagtaagc 480
aaggtaaaac ccaaaggcaa agttcgatgg actggttctc ggacacgtgg cagatggaaa 540
tattccagca atgatgaaag tgaagggtct ggcagtgaaa aatcatctgc agcttcagaa 600
gaggaggaag aaaaggaaag tgaagaagcc atcctagcag atgatgatga accatgcaaa 660
aaatgtggcc ttccaaacca tcctgagcta attcttctgt gtgactcttg cgatagtggg 720
taccatactg cctgccttcg cctcctctg atgatcatcc cagatggaga atgggttctgc 780
ccaccttgcc aacataaact gctctgtgaa aaattagagg aacagttgca ggatttggat 840
gttgcccttaa agaagaaaga gcgtgccgaa cgaagaaaag aacgcttggt gtatttgggt 900
atcagtattg aaacatcat tcctccacaa gagccagact tttctgaaga tcaagaagaa 960
aagaaaaaag attcaaaaaa atccaaagca aacttgcttg aaaggaggtc aacaagaaca1020
aggaaatgta taagctacag atttgatgag tttgatgaag caattgatga agctattgaa1080
gatgacatca aagaagccga tggaggagga gttggccgag gaaaagatat ctccaccatc1140
acaggtcatc gtgggaaaga catctctact attttggatg aaaaaataat aacggc 1196

```

<210> 262

<211> 1467

<212> DNA

<213> Homo sapiens

<400> 262

```

aaggacgctt gcctttttcc ggtcggggaa gggggaagaa ggtaacttcc ggtgacgggg 60
ttgcatcact tcctctcaag cttgggcggt tggttggtgg gggtacacgc ggggtcaaca 120
tgctatcga aaagtgttat ttctgttcgg ggccatcta tcctggacac ggcattgatg 180
tcgtccgcaa cgattgcaag gtgttcagat tttgcaaatc taaatgtcat aaaaacttta 240
aaaagaagcg caatcctcgc aaagttaggt ggaccaaagc attccggaaa gcagctggta 300
aagagcttac agtggataat tcatttgaat ttgaaaaacg tagaaatgaa cctatcaaat 360
accagcgaga gctatggaat aaaactattg atgcgatgaa gagagttaga gaaatcaaac 420
agaagcgcca agctaaattt ataatgaaca gattgaagaa aaataaagag ctacagaaag 480
ttcaggatat caaagaagtc aagcaaaaca tccatcttat ccgagccctt cttgcaggca 540
aagggaacaa gttggaagag aaaatggtac agcagttaca agaggatgtg gacatggaag 600
atgctcctta aaaatctctg taaccatttc ttttatgtac atttgaaaat gccctttgga 660
tacttggaaac tgctaaatta ttttattttt tacataaggt cacttaaatg aaaagcgatt 720
aaaagacatc tttcctgcat tgccatctac ataatatcag atattacgga tgtagattg 780
catctcagtg ttaaactctt actgatagat gtacttaagt aaatcatgaa aattctactt 840
gtaactatag aagtgaattg tggacgtaaa atggttggtc tatttgata atggcactag 900
gcagcatttg tatagtaact aatggcaaaa attcatggct agtgatgtat aaaaataaat 960
attctttgca gtaaaatatt ccctttgtta atgttataga aggggggata caaaaaggaa1020
ctaacaattt gtatggcagt gtcagatatt tttattttag tatttcctgt tttggtttat1080
ttgcatctta gaagagcata atgacattgt ttgatgaagc ctaattatgc tggactgttt1140
tgacctggtt taacccttct gataggtagt tgtggatgct ggggatgaga actgaataat1200
ctttgcctgg agtgacacta cactctagaa tttccacttt ggagaatact cagttccaac1260
ttgtgattcc tgatagaaca gactttactt ttctagccca gcattgatct agaagcagag1320
gaatcccgag gcctttttaa agttgttatg tggttttctt ttaaaaagct cctgtttttg1380
gaaagtagaa tttatgggta caacgtatgt tcattatttg tacataaaat aaaaccattt1440
aaaaagtaaa aaaaaaaaaa aaaaaaac

```

1467

<210> 263

<211> 739

<212> DNA

<213> Homo sapiens

<400> 263

```

cggctcgcgc cccgctcagt caccgcgcgc aggcgtgcgc tttcccgct ctccgcgcgc 60
ccggggaagg tcagcgccgt aatggcgctt ttggcgctcg gaccctacct gaccatcag120
caaaaggtgt tgcggtttaa taagcgggag ctacgccacc tcgagtcgtg gtgcgtccag180

```

```

agagacaaat accgatactt tgcttgtttg atgagagccc ggtttgaaga acataagaat240
gaaaaggata tggcgaaggc caccagctg ctgaaggagg ccgaggaaga attctggtac300
cgtcagcatc cacagccata catcttcctt gactctcctg ggggcacctc ctatgagaga360
tacgattgct acaagggtccc agaattggtg ttagatgact ggcattcctt tgagaaggca420
atgtatcctg attactttgc caagagagaa cagtgggaaga aactgcggag gaaaagctgg480
gaacgagagg ttaagcagct gcaggaggaa acgccacctg gtggtccttt aactgaagct540
ttgccccctg cccgaaagga aggtgatttg cccccactgt ggtggtatat tgtgaccaga600
ccccgggagc ggcccatgta gaaagagaga gacctcatct ttcattgctt caagtgaat660
atgttacaga acatgcactt gccctaataa aaaatcagtg aaatggaaaa aaaaaaaaa720
aaaaaaaaaa aaaaaaaaaa

```

739

<210> 264  
 <211> 2146  
 <212> DNA  
 <213> Homo sapiens

<400> 264

```

tttttttttt tttttttttt tcccaggccc tctttttatt tacagtata ccaaacctac 60
cacttgcaaa ttctttggtc tcccatcagc tggaattaag taggtactgt gtatctttga 120
gatcatgtat ttgtctccac cttggtggat acaagaaagg aaggcacgaa cagctgaaaa 180
agaagggtat cacaccgctc cagctggaat ccagcaggaa cctctgagca tgccacagct 240
gaacacttaa aagaggaaaag aaggacagct gctcttcatt tattttgaaa gcaaattcat 300
ttgaaagtgc ataaatgggtc atcataagtc aaacgtatca attagacctt caacctaggt 360
tatttaataa tacaccacac tgaaattatt tgccaatgaa tcccaaagat ttggtacaaa 420
tagtacaatt cgtatttgct ttctcttttc ctttcttcag acaaacacca aataaaatgc 480
aggtgaaaga gatgaaccac gactagaggc tgacttagaa atttatgctg actcgatcta 540
aaaaaaaaaa tgttggttaa cgtaaaccta tctaaaatcg ggccctttcg gcaagccttt 600
caaaggaggt caagtccacg tcatacagct agaaaagtcc ctgaaaaaaaa gaattgttaa 660
gaagtataat aaccttttca aaaccacaaa cgcagcttag ttttccttta tttatttggt 720
gtcatgaaga ctatccccat ttctccataa aatcctccct ccatactgct gcattatggc 780
acaaaagact ctaagtgcc aagacagaa ggaccagagt ttccgattat aaacaatgat 840
gctgggtaat gtttaaata gaacattgga tatggatggt cagatgaaag ctcgagccga 900
attcggctcg agctttcact tgaccatcca tatccaatgt tctcatttaa acattccca 960
gcatcattgt ttataatcag aaactctggt cttctgtct ggtggcactt agagtctttt1020
gtgccataat gcagcagtat ggagggagga ttttatggag aaatggggat agtcttcatg1080
accacaaata aataaaggaa aactaagctg cattgtgggt tttgaaaagg ttattatact1140
tcttaacaat tcttttttca gggacttttc tagctgtatg actgttactt aaactatcta1200
aaatagagca ttttggtatc ttctcatctga ccatccatat ccaatgttct catttaacaa1260
ttaccagca ctaattgttta taatcagaaa ctctggtcct tctgtctggt ggcacttaga1320
gtcttttctg ccataatgca gcagtatgga gggaggattt tatggagaaa tggggatagt1380
cttcatgacc acaataaat aaaggaaaac taagctgcat tgtgggtttt gaaaagggtta1440
ttatacttct taacaattct ttttttcagg gacttttcta gctgtatgac tgttacttga1500
ccttctttga aaagcattcc caaatgctc tattttagat agattaacat taaccaacat1560
aatttttttt agatcgagtc agcataaatt tctaagtcag cctctagtcg tgggtcatct1620
ctttcacctg cattttatct ggtggtttgtc tgaagaaagg aaagaggaaa gcaaatacga1680
attgtactat ttgtaccaa tctttgggat tcattggcaa ataatttcag tgtggtgtat1740
tattaaatag aaaaaaaaaa ttttgtttcc taggttgaag gtctaattga tacgtttgac1800
ttatgatgac catttatgca ctttcaaatg aatttgcttt caaaaataaat gaagagcagc1860
tgtccttctt tctcttttta agtggttcagc tgtggcatgc tcagagggtc ctgctggatt1920
ccagctggag cgggtgtgata ccttcttttt tcagctgttc gtgccttcct ttcttgatc1980
caccaaagtg gagacaaata catgatctca aagatacaca gtacctactt aattccagct2040
gatgggagac caaagaattt gcaagtggat ggtttggtat cactgtaaat aaaaagaggg2100
cctgggaatt cttgcgattc catctctaaa aaaaaaaaaa aaaaaa

```

2146

<210> 265  
 <211> 1020  
 <212> DNA  
 <213> Homo sapiens

<400> 265

caagtaaatg cagcactagt ggggtgggatt gaggtatgc cctggtgcat aaatagagac 60

```

tcagctgtgc tggcacactc agcggctctg gaccgcatcc tagccgccga ctcacacaag 120
gcaggtgggt gaggaaatcc agagttgcc aaggagaaaat tccagtgtca gcattcttgc 180
tccttggtgc cctctcctac actctggcca gagataccac agtcaaaccct ggagccaaaa 240
aggacacaaa ggactctcga cccaaaactgc cccagaccct ctccagaggt tggggtgacc 300
aactcatctg gactcagaca tatgaagaag ctctatataa atccaagaca agcaacaaac 360
ccttgatgat tattcatcac ttggatgagt gccacacag tcaagcttta aagaaagtgt 420
ttgctgaaaa taaagaaatc cagaaattgg cagagcagtt tgtcctcctc aatctggttt 480
atgaaacaac tgacaaacac ctttctcctg atggccagta tgtccccagg attatgtttg 540
ttgacccatc tctgacagtt agagccgata tcaactggaag atattcaaac cgtctctatg 600
cttacgaacc tgcagataca gctctgttgc ttgacaacat gaagaaagct ctcaagttgc 660
tgaagactga attgtaaaga aaaaaaatct ccaagccctt ctgtctgtca gcccttgaga 720
cttgaaacca gaagaagtgt gagaagactg gctagtgtgg aagcatagtg aacacactga 780
ttaggttatg gtttaagtgt acaacaacta ttttttaaga aaaacaagtt ttagaaattt 840
ggtttcaagt gtacatgtgt gaaaacaata ttgtatacta ccatagttag ccatgatttt 900
ctaaaaaaaa aaataaatgt tttgggggtg ttctgttttc tccaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aaaaattgcc cccaagggga cgggttacaa ttggggggcg 1020

```

&lt;210&gt; 266

&lt;211&gt; 1652

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 266

```

aattcggatc catgggccac agtggatggc ttgaaatgtg gctgagcgtc tcggacaatt 60
cggatccatg nnnngtggcc accccaagac gcgccccagc ccgcatggc cggatccctn 120
nccgggnntc ctgccttctg tccctgctcc tggccgngt ttgttccgcc gggccgggga 180
caagagaagt ctaagacaga ctgccatggc ggtnatgagt ggtaccatct acgagtatgg 240
agccctcacc atcgatgggg aggaatacat tccttttaag cagtatgcag gcaaataat 300
cctctttgtc aacgtagcca gctactgagg tctgacagac caataccttg aactgaatgc 360
actacaagaa gaacttgggc catttggtcn tgggtcattct gggcttccct tccaaccaat 420
ttggcaaaaca ggagccaggg gagaactcgg agatactccc cagtctcaag tatgttcggn 480
accaggttng ggggctttgt gncctaattn nnttccagnc tcntttgaga aanngganga 540
tngtngaacn ggggagnaaa gagcnagaaa ttctacactt tcctgaagaa ctctgcccct 600
cccactgcag naactcctgg gnetcancct ggccgcntc ttttgggaac ccatgaagat 660
ccatgacatn ccgctggaac tttgagaagt tcttggtngg ggccnagant ggcataccgg 720
ttatgcgctg gtaccaccgg accacagtcn agcaacgctn aagatggaca tcctgntcnt 780
tacatgaggc ggcaggcang ccctgangcg ccnagggggn aagtaactga ntgcccnnnc 840
caccctcacc ctacccccctg cccatcatng caagggccga nggaggggct cttncaggaa 900
ggaagccaca ttcccagtc tctnancce ccaccccaga ttctcttnc ttnattacat 960
aaaagacaag ccntggcaca actgtgtgtc tgaaccactg tnggacacgt gacaattgt 1020
cccagtgtgt gcatggctac acagnccacg tatctgctg cnttgaaacc cangggnat 1080
gtccatcntg tngtttacgg ncttggcaca acaccnntc atattttttt cagcntttct 1140
gttccaaann tgagnnccca aannggaaac acnaangttc tnaggtccna atnggttct 1200
ctcaaanccn tganacatnc attcnttggg gnccangcat cntcccatat ngcccacacn 1260
tacacaccac cnagcctcct tcttcttnc ctgnaaggac cntccnnnnn tgagcccca 1320
agccnccatc cacagtgcnt cctgagacca gccaaagaaa ctgtgagcgc gatggcctg 1380
tancccccag tncaggggnt ggtgtctcta tgaagganng ggnncccgna agccttgt 1440
gggncggngc ctcccctgag ccngtctgt ggtgccnagc ccttagtgca ttcaggctta 1500
ggctcccnag gcangggaca ctacccccgc gcctctggag gacatgctat cctctcactc 1560
tgtccactgg tatctcaaca ccccatctg ccagtaaaag gtctttctgc agcaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gg
1652

```

&lt;210&gt; 267

&lt;211&gt; 1409

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 267

```

ggagtggccc tctgtgagg gctcaaattg ttgcaattca tggcgcggtta cgacttggct 60
cacttaatac aatccctacc aactctaact tgccgaagga agaacttgac ctcttgaga 120
accctcgatt gggttttctt gccatttaga tgttgaagta ccccatgaag agctgcaaaa 180

```



```

attctcaaag gtggattaca ggaggtggca gaacagttag agctggaacg gataggacca 240
caacatcagg caggatctga ttcattgctc acaggaaatgg cctttttcaa aatgagagaa 300
atgttctttg aagatcatat tgatgatgcc aaatattgtg gtcatttgta tggccttggg 360
tctggttcat cctatgtaca gaatggcaca gggaatgcat atgaagagga agccaacaag 420
cagtcattgac atgaaatagt ccttttattt ttatttcgag ctacacacat gcttgtatat 480
aggttttatc tctggttgaa tccctcgaac aatagacagt accctttccc cccctttcat 540
ggccccatttt attgtctgcc tttcagttact aagtatgacc gttcctatct cagatcttaa 600
taaaaagaaa aaaaaaacg cattcaggtt aaatttggcc ttaatttaat atacttgta 660
gcaagcgtgt gtgacagaga gtggggaaag ctacatcatt gaatattttg ataaacttta 720
ccgacttgag tttggtttat ttttcccttt tctaaatta actagcactg actgtaattt 780
atttccctgt ttcacgtctc tcccttccat tctgcaggag ttttagctat ttgagatcgt 840
ggaccatcag ttttgcactt tagagagtgt ttctgactct aaacctgttt tatcagaaaa 900
tttggtttttt cttgatctta gctggaaaaa tctgccaaact ttacacagta tttacttggg 960
tttgaccacac agaatatagc acgttgtgca aactgtcgat tcagcgaaac ttaaaaaaga1020
caagaaacta ctgaggagct tagtaactgc tgtttctgta cgtagtgttt aatcttccaa1080
gcacatctag tgtctgtcag tttctaattg gcatgtgtag gctgctctgt gactgaagaal140
ttttcaaacc agctttacac ctttcaggaa aaatccctgt gattggatgg ttactatctg1200
ccaggaactg gtacccagat gtgaagcaca gttattatga tagacacttc ctgagtgcct1260
ttgtatccac accattacct ttttttttaa attggagcca tctatgagcc tgattgtggg1320
cgcaaccatt gtaaaacca gaaagcctag ggattggcca ataattgggg aaatggtgca1380
gtgccaaagg aatgggatgg caaaagaag

```

1409

<210> 268  
<211> 900  
<212> DNA  
<213> Homo sapiens

<400> 268

```

cccacgcgtc ccggaacg cggcggcggc gacaggaccg aggggcctta gttggtgggc 60
aagtcgggga tcccagaaag agaagcgtga cccggaagcg gaaacgggtg tccgtcccag120
ctccggcctg ccagtgaagt tctaccatca tggacctatt gttcgggcgc cggaagacgc180
cagaggagct actgcggcag aaccagaggg cctgaaccg tgccatgcgg gactggacc240
cagagcgaca gaaactagag acccaggaga agaaaatcat tgcagacatt aagaagatgg300
ccaagcaagg ccagatggat gctgttcgca tcatggcaaa agacttgggt cgcacccggc360
gctatgtgcg caagtgtgta ttgatgcggg ccaacatcca ggctgtgtcc ctcaagatcc420
agacactcaa gtccaacaac tctgatggac aagccatgaa ggggtgtcacc aaggccatgg480
gcaccatgaa cagacagctg aagttgcccc agatccagaa gatcatgatg gatttgagc540
ggcaggcaga gatcatggat atgaaggagg agatgatgaa tgatgccatt gatgatccca600
tgggtgatga ggaagatgaa gaggagagtg atgctgtggt gtcccagggt ctggatgagc660
tgggacttag tctaacagat gagctgtcga acctccccct aactgggggc tgccttagtg720
tggctgctgg cttgaaaaaa gcagaggccg cagcctcagc cctagctgat gctgatgcag780
acctggagga acggcttaag aacctgcgga gggactgagt gcccctgcca ctccgagata840
accagtggat gccaggatc ttttaccaca acccctctgt aataaaagag atttgact900

```

<210> 269  
<211> 1145  
<212> DNA  
<213> Homo sapiens

<400> 269

```

gggccccgcc caggcggtct cccgtgacct gcctgggcgc ggggaactga aagccggaag 60
gggcaagacg ggttcagttc gtcattggggc tgtttggaag gacccaggag aagccgcca 120
aagaactggt caatgagtgg tcattgaaga taagaaagga aatgagagtt gttgacaggc 180
aaataaggga tatccaaaga gaagaagaaa aagtgaacg atctgtgaaa gatgctgcca 240
agaagggcca gaaggatgtc tgcatagtct tggccaagga gatgatcagg tcaaggaaag 300
ctgtgagcaa gctgtatgca tccaaagcac acatgaactc agtgctcatg gggatgaaga 360
accagctcgc ggtcttgoga gtggctggtt ccctgcagaa gagcacagaa gtgatgaagg 420
ccatgcaaag tcttgatgaa attccagaga ttcaggccac catgaggagg ttgtccaaag 480
aaatgatgaa ggctgggatc atagaggaga tgtagagga cacttttgaa agcatggacg 540
atcaggaaga aatggaggaa gaagcagaaa tggaaattga cagaattctc tttgaaatta 600
cagcaggggc cttgggcaaa gcacccagta aagtgactga tgcccttcca gagccagaac 660

```

```

ctccaggagc gatggctgcc tcagaggatg agggggagga ggaagaggct ctggaggcca 720
tgcagtcccc gctggccaca ctccgcagct aggggctgcc taccgccctg ggtgtgcaca 780
cactcctctc aagagctgcc attttatgtg tctcttgac tacacctctg ttgtgaggac 840
taccattttg gagaaggttc tgtttgtctc ttttcattct ctgccagggt tttgggacg 900
caaagggatt gttcttataa aagtggcata aataaatgca tcatttttag gagtatagac 960
agatatatct tatttggggg aggggaaaga aatccatctg ctcatgaagc acttctgaaa1020
atataggtga ttgcctgaat gtcgaagact ctacttttgt ctataaaaca ctatataaat1080
gaattttaat aaatttttgc ttttagcactt ggccccattg tagattgccc tgtgcagtaa1140
acttt 1145

```

&lt;210&gt; 270

&lt;211&gt; 1836

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 270

```

gttgcgacat gcagtgcgcc ggaggaactg tgctctttga ggccgacgct aggggcccgg 60
aagggaact gcgaggcgaa ggtgaccggg gaccgagcat ttcagatctg ctcggtagac 120
ctggtgcacc accaccatgt tggctgcaag gctggtgtgt ctccggacac taccttctag 180
ggttttccac ccagctttca ccaaggcctc cctgttgtg aagaattcca tcacgaagaa 240
tcaatggctg ttaacaccta gcaggaata tgccaccaa acaagaattg ggatccggcg 300
tgggagaact ggccaagaac tcaaagaggc agcattggaa ccacgatgg aaaaaatatt 360
taaaattgat cagatgggaa gatggtttgt tgctggaggg gctgctgttg gtcttgaggc 420
attgtgctac tatggcttgg gactgtctaa tgagattgga gctattgaaa aggctgtaat 480
ttggcctcag tatgtcaagg atagaattca ttccacctat atgtacttag caggagat 540
tggtttaaca gctttgtctg ccatagcaat cagcagaacg cctgttctca tgaacttcat 600
gatgagaggc tcttgggtga caattggtgt gacctttgca gccatgggtg gagctggaat 660
gctggtacga tcaataccat atgaccagag ccaggccca aagcatcttg cttggttgct 720
acattctggt gtgatgggtg cagtgggtgg tctctgaca atattagggg gtcctcttct 780
catcagagct gcatggtaca cagctggcat tgtgggaggc ctctccactg tggccatgtg 840
tgcgcccagt gaaaagtttc tgaacatggg tgcacccctg ggagtggg cc tgggtctcgt 900
ctttgtgtcc tcattgggat ctatgtttct tccacctacc accgtggctg gtgccactct 960
ttactcagt gcaatgtacg gtggattagt tcttttcagc atgttcttct tgtatgatac1020
ccagaaagta atcaagcgtg cagaagtatc accaatgtat ggagttcaaa aatatgatcc1080
cattaactcg atgctgagta tctacatgga tacattaaat atatttatgc gagttgcaac1140
tatgctggca actggaggca acagaaagaa atgaagtga cagcttctg gcttctctgc1200
tacatcaaat atcttgttta atggggcaga tatgcattaa atagtttgta caagcagctt1260
tcgttgaagt ttagaagata agaaacatgt catcatattt aaatgttccg gtaatgtgat1320
gcctcaggtc tgcctttttt tctggagaat aaatgcagta atcctctccc aaataagcac1380
acacattttc aattctcatg tttgagtgt tttaaaatgt tttggtgaat gtgaaaacta1440
aagtttgtgt catgagaatg taagtctttt ttctacttta aaatttagta gggtcactga1500
gtaactaaaa tttagcaaac ctgtgtttgc atattttttt ggagtgcaga atattgtaat1560
taatgtcata agtgatttgg agctttggta aagggaccag agagaaggag tcacctgcag1620
tcttttgttt ttttaatac ttagaactta gcacttgtgt tattgattag tgaggagcca1680
gtaagaaaca tctgggtatt tggaaacaag tggtcattgg ttacattcat ctgctgaact1740
taacaaaact ggttccatcc tggaaacagg cacaggtgaa tgcattctct ctgcggttgg1800
ctccccagt gcccgccttc ccataatgga tgtggg 1836

```

&lt;210&gt; 271

&lt;211&gt; 1220

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 271

```

tgaagttcta agagctttcc aagtttggga aggtgtccgg gttttctgcg attacttctc 60
tgagcatgaa cggaagtcac cctttgtgcc ttatgcggtg attttaatga taggtgtcat 120
atataggacg gagtaatctg tttacattct gttcttctcg atgcactcac aagcgggtaa 180
ctaggtgaca agaaaacaaa gatcttattc aaaagagggtc ttacagcaac ccaacgtctc 240
atcttcccat agtaaagatg acggcgccct gaggtaaagct acaggcaaca ccacttccgc 300
gtttctcttg cgccctggtc caagatggcg gatgaagcca cgcgacgtgt tgtgtctgag 360
atccccggtgc tgaagactaa cgccggacc cagatcgtg agttgtgggt gcagcgactg 420

```

```

aaggaggaat atcagtcctt tatccggtat gtggagaaca acaagaatgc tgacaacgat 480
tggttccgac tggagtccaa caaggaagga actcgggtgg ttggaaaatg ctggtatatc 540
catgacctcc tgaaatatga gtttgacatc gagtttgaca ttctatcac atatcctact 600
actgccccag aaattgcagt tcctgagctg gatggaaaga cagcaaagat gtacaggggt 660
ggcaaaatat gctgacgga tcatttcaaa cctttgtggg ccaggaatgt gcccaaattt 720
ggactagctc atctcatggc tctggggctg ggtccatggc tggcagtgga aatccctgat 780
ctgattcaga agggcgctcat ccaacacaaa gagaaatgca accaatgaag aatcaagcca 840
ctgaggcagg gcagagggac ctttgatagg ctacgatact attttcctgt gcatcacact 900
taactcatct aactgcttcc ccggacaccc tccacctcta gttgttacta agtagctgca 960
gtaggcattg ctgggggaaga aacaaacaca caccaaacag tactgttact tagtttctaa1020
ggctgcacag ggaagggaaa gactgggctt tggacaatct agaggtaatt tatatccgcc1080
cccaggtgga gcaacatgag attctggagg acgggggta actgaaagtg agtacatata1140
gtctttctgg tttctggaga taacccatca ataaaaagctg cttcctctgg taaaaaaaaa1200
aaaaaaaaaa aaaaaaaaaa
1220

```

&lt;210&gt; 272

&lt;211&gt; 1303

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 272

```

cgcagtgcgc aggcgtgggg ctctctcctt gtcagtcggc gccgcgtgcg ggctgggtggc 60
tctgtggcag cggcgggcggc aggactccgg cactatgagc ggcttcagca ccgaggagcg 120
cgccgcgccc ttctcccttg agtaccgagt cttcctcaaa aatgagaaag gacaatatat 180
atctccattt catgatattc caatttatgc agataaggat gtgtttcaca tggtagttga 240
agtaccacgc tgggtctaatg caaaaatgga gattgctaca aaggaccctt taaaccctat 300
taaacaagat gtgaaaaaag gaaaacttcg ctatgttgcg aatttgttcc cgtataaagg 360
atatactctg aactatgggtg ccattccctca gacttgggaa gacccagggc acaatgataa 420
acatactggc tgttgtgggtg acaatgaccc aattgatgtg tgtgaaattg gaagcaaggt 480
atgtgcaaga ggtgaaataa ttggcgtgaa agttctaggc atattggcta tgattgacga 540
aggggaaacc gactggaaag tcattgccat taatgtggat gatcctgatg cagccaatta 600
taatgatata aatgatgtca aacgggtgaa acctggctac ttagaagcta ctgtggactg 660
gtttagaagg tataaggttc ctgatggaaa accagaaaat gagtttgctt ttaatgcaga 720
atttaaagat aaggactttg ccattgatat tattaaaagc actcatgacc attggaaagc 780
attagtgact aagaaaacga atggaaaagg aatcagttgc atgaatacaa ctttgtctga 840
gagcccttc aagtgtgatc ctgatgctgc cagagccatt gtggatgctt taccaccacc 900
ctgtgaatct gcctgcacag taccaacaga cgtggataag tggttccatc accagaaaaa 960
ctaagtatat ttctctggaa tacaagctga ttatgtctac tctgttcatc ttggatgtat1020
tagaagtata agtagtagct tttcaaagct ttaaatttgt agaactcatc taactaaagt1080
aaattctgct gtgactaatc caatatactc agaattgtat ccatctaaag catttttcat1140
atctcaacta agataacttt tagcacatgc ttaaatatca aagcagttgt catttggaag1200
tcacttgtga atagatgtgc aaggggagca catattggat gtatatgtta ccatatgtta1260
ggaaataaaa ttattttgct gaaacttgga aaaaaaaaaa aaa
1303

```

&lt;210&gt; 273

&lt;211&gt; 1586

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 273

```

cggctcgagc ggctcgagat tgcaggtcgt ggtggtcttg gaagagcgtc gggggggccg 60
tggacgtgga atgggcccag gagatggatt tgattctcgt ggcaaacgtg aatttgatag 120
gcatagtgga agtgatagat ttggcctgaa gcacgaggac aaacgtggag gtagcggatc 180
tcacaactgg ggaactgtca aagacgaatt aacagagtcc cccaaataca ttcagaaaca 240
aatatcttat aattacagtg acttggatca atcaaattg actgaggaaa cacctgaagg 300
tgaagaacat catccagtgg cagacactga aaataaggag aatgaagttg aagaggtaaa 360
agaggagggt ccaaaagaga tgacttttgg tgagtggaa gctattcaaa ataaggaccg 420
ggcaaaagta gaatttaata tccgaaaacc aaatgaaggt gctgatgggc agtggaaaga 480
gggattttgt cttcataaat caaagagtga agaggctcat gctgaagatt cggttatgga 540
ccatcatttc ccgaagccag caaatgatat aacgtctcag ctggagatca attttgga 600
ccttgccgc ccaggacgtg gcggcagggg aggacgaggt ggacgtgggc gtggtggg 660

```

```

cccaaaccgt ggcagcagga cgcacaagtc aagtgtctct gctcctgatg tggatgaccc 720
agaggcattc ccagctctgg cttaactgga tgccataaga caaccctggg tcctttgtga 780
acccttctgt tcaaagcttt tgcattgcta aggattccaa acgactaaga aattaaaaaa 840
aaaaagactg tcattcatac cattcacacc taaagactga attttatctg ttttaaaaaa 900
gaactttctc cgctacacag aagtaacaaa tatggtagtc agttttgtat ttagaaatgt 960
attggtagca gggatgtttt cataattttc agagattatg cattcttcat gaatactttt1020
gtattgtctg ttgcaaatat gcatttccaa acttgaaata taggtgtgaa cagtgtgtac1080
cagtttaaag ctttcacttc atttgtgttt ttttaattaag gatttagaag ttcccccaat1140
tacaaactgg ttttaaatat tggacatact ggttttaata cctgctttgc atattcacac1200
atggtcaact gggacatggt aaactttgat ttgtcaaatt ttatgctgtg tggaaatact1260
actatatgta ttttaactta gttttaatat tttcattttt ggggaaaaat cttttttcac1320
ttctcatgat agctgttata tatatatgct aaatctttat atacagaaat atcagtactt1380
gaacaaattc aaagcacatt tggtttatta acccgtggct gccctggcat ggggcccatt1440
tggggtccaa attataactg atttacattt tcagcgatat tacttttaaa tgcctgagtt1500
cccatttaaa atctaactag acacctaata gggaagtggg taaccactat gtggtagcca1560
cgggccag
1568

```

&lt;210&gt; 274

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 274

Lys 1	Gln	Val	Lys	Cys 5	Ala	Lys	Val	Ser	Tyr 10	Leu	Leu	Phe	Leu	Phe 15	Gln
Tyr	Cys	Ala	Ile 20	Asp	Ser	Cys	Ile	Lys 25	Phe	Trp	Asn	Ala	Gly 30	Ser	Ser
Trp	Leu	Ser 35	Ser	Val	Thr	Leu	Trp 40	Ser	Met	Ser	Ser	Val 45	Ser	Leu	Ser
Ala	Ser 50	Asn	Val	Gly	Arg	Val 55	Arg	Ile	Lys	Ser	Glu 60	Gly	Cys	Ser	Thr
Gly 65	Asp	Lys	Leu	Ser	Leu 70	Gly	Val	Pro	Ala	Ser 75	Lys	Ala	Thr	Glu	Pro 80
Ile	Ser	Phe	Arg	Arg 85	Arg	Ser	Ser	Cys	Ser 90	Leu	Cys	Cys	Trp	Leu 95	Ser
Ala	Leu	Ala	Ser 100	Asp	Phe	Phe	Arg	Arg 105	Ser	Tyr	Ser	Gly	Arg 110	Tyr	Ser
Leu	Ser	Tyr 115	Ser	Ser	Ala	Ala	Leu 120	Val	Thr	Cys	Thr	Lys 125	Ser	Ser	Ser
Asn	Pro 130	Val	Pro	Arg	Thr	Ala 135	Glu	Thr	Pro	Thr	Thr 140	Leu	Ser	Glu	Leu

&lt;210&gt; 275

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 275

Met 1	Ser	Leu	Val	Leu 5	Asp	Glu	Phe	Tyr	Ser 10	Ser	Leu	Arg	Val	Val 15	Gly
Val	Ser	Ala	Val 20	Leu	Gly	Thr	Gly	Leu 25	Asp	Glu	Leu	Phe	Val 30	Gln	Val

$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$

[illegible][illegible][illegible]

```
<210> 277
<211> 89
<212> PRT
<213> Homo sapiens
```

<400> 277

Asn 1	Glu	Leu	Ile	Ile 5	Trp	Gln	Arg	Val	Leu 10	Pro	Lys	Cys	Gln	Val 15	His
Arg	Lys	Glu	Cys 20	Val	Ala	Asn	Leu	Thr 25	His	Gln	Pro	Thr	His 30	Arg	Pro
Thr	Ala	Ser 35	Ala	Leu	Cys	Ser	Arg 40	Trp	Leu	Gln	Arg	Cys 45	Arg	Asp	Val
Gly	Arg 50	Cys	Leu	Leu	Gln	Val 55	Gly	Gln	Gly	Ala	Leu 60	Arg	Asp	Val	Gly
Gly 65	Leu	Phe	Val	Leu	His 70	Val	Asp	Val	Leu	Gln 75	His	Leu	Leu	Pro	Met 80
Pro	Gln	Leu	Cys	Gln 85	Val	Leu	Leu	Asp							

```
<210> 278
<211> 401
<212> PRT
<213> Homo sapiens
```

<400> 278

Met 1	Pro	Asn	Phe	Cys 5	Ala	Ala	Pro	Asn	Cys 10	Thr	Arg	Lys	Ser	Thr 15	Gln
Ser	Asp	Leu	Ala 20	Phe	Phe	Arg	Phe	Pro 25	Arg	Asp	Pro	Ala	Arg 30	Cys	Gln
Lys	Trp	Val 35	Glu	Asn	Cys	Arg	Arg 40	Ala	Asp	Leu	Glu	Asp 45	Lys	Thr	Pro
Asp	Gln 50	Leu	Asn	Lys	His	Tyr 55	Arg	Leu	Cys	Ala	Lys 60	His	Phe	Glu	Thr
Ser 65	Met	Ile	Cys	Arg	Thr 70	Ser	Pro	Tyr	Arg	Thr 75	Val	Leu	Arg	Asp	Asn 80
Ala	Ile	Pro	Thr	Ile 85	Phe	Asp	Leu	Thr	Ser 90	His	Leu	Asn	Asn	Pro 95	His
Ser	Arg	His	Arg 100	Lys	Arg	Ile	Lys	Glu 105	Leu	Ser	Glu	Asp	Glu 110	Ile	Arg
Thr	Leu	Lys 115	Gln	Lys	Lys	Ile	Asp 120	Glu	Thr	Ser	Glu	Gln 125	Glu	Gln	Lys
His	Lys 130	Glu	Thr	Asn	Asn	Ser 135	Asn	Ala	Gln	Asn	Pro 140	Ser	Glu	Glu	Glu
Gly 145	Glu	Gly	Gln	Asp	Glu 150	Asp	Ile	Leu	Pro	Leu 155	Thr	Leu	Glu	Glu	Lys 160

Glu	Asn	Lys	Glu	Tyr 165	Leu	Lys	Ser	Leu	Phe 170	Glu	Ile	Leu	Ile	Leu	Met 175
Gly	Lys	Gln	Asn 180	Ile	Pro	Leu	Asp	Gly 185	His	Glu	Ala	Asp	Glu 190	Ile	Pro
Glu	Gly	Leu 195	Phe	Thr	Pro	Asp	Asn 200	Phe	Gln	Ala	Leu	Leu 205	Glu	Cys	Arg
Ile	Asn 210	Ser	Gly	Glu	Glu	Val 215	Leu	Arg	Lys	Arg	Phe 220	Glu	Thr	Thr	Ala
Val 225	Asn	Thr	Leu	Phe	Cys 230	Ser	Lys	Thr	Gln	Gln 235	Arg	Gln	Met	Leu	Glu 240
Ile	Cys	Glu	Ser	Cys 245	Ile	Arg	Glu	Glu	Thr 250	Leu	Arg	Glu	Val	Arg 255	Asp
Ser	His	Phe	Phe 260	Ser	Ile	Ile	Thr	Asp 265	Asp	Val	Val	Asp	Ile 270	Ala	Gly
Glu	Glu	His 275	Leu	Pro	Val	Leu	Val 280	Arg	Phe	Val	Asp	Glu 285	Ser	His	Asn
Leu	Arg 290	Glu	Glu	Phe	Ile	Gly 295	Phe	Leu	Pro	Tyr	Glu 300	Ala	Asp	Ala	Glu
Ile 305	Leu	Ala	Val	Lys	Phe 310	His	Thr	Met	Ile	Thr 315	Glu	Lys	Trp	Gly	Leu 320
Asn	Met	Glu	Tyr	Cys 325	Arg	Gly	Gln	Ala	Tyr 330	Ile	Val	Ser	Ser	Gly 335	Phe
Ser	Ser	Lys	Met 340	Lys	Val	Val	Ala	Ser 345	Arg	Leu	Leu	Glu	Lys 350	Tyr	Pro
Gln	Ala	Ile 355	Tyr	Thr	Leu	Cys	Ser 360	Ser	Cys	Ala	Leu	Asn 365	Met	Trp	Leu
Ala	Lys 370	Ser	Val	Pro	Val	Met 375	Gly	Val	Ser	Val	Ala 380	Leu	Gly	Thr	Ile
Glu 385	Glu	Val	Cys	Ser	Phe 390	Phe	His	Xxx	Ile	Thr 395	Thr	Thr	Ala	Phe	Arg 400

Thr

&lt;210&gt; 279

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 279

Met 1	Leu	Ile	Ser	Gly 5	Thr	Leu	Ser	His	Gly 10	Thr	Thr	Gln	Ile	Gln 15	Tyr
Xxx	Xxx	Glu	Glu 20	His	His	Ala	Asp	Met 25	Tyr	Arg	Ser	Asp	Leu 30	Pro	Asn
Pro	Asp	Thr 35	Leu	Ser	Ala	Glu	Leu 40	His	Cys	Trp	Arg	Ile 45	Lys	Trp	Lys

His	Arg	Gly	Lys	Asp	Ile	Glu	Leu	Pro	Ser	Thr	Ile	Tyr	Glu	Ala	Leu
	50					55					60				
His	Leu	Pro	Asp	Ile	Lys	Phe	Phe	Pro	Asn	Val	Tyr	Ala	Leu	Leu	Lys
65					70					75					80
Val	Leu	Cys	Ile	Leu	Pro	Val	Met	Lys	Val	Glu	Asn	Glu	Arg	Tyr	Glu
				85					90					95	
Asn	Gly	Thr	Lys	Ala	Ser	Leu	Lys	His	Ile						
			100					105							

&lt;210&gt; 280

&lt;211&gt; 398

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 280

Gly	Arg	Lys	Cys	Asn	Lys	Phe	Trp	Asp	Asn	Ala	Gln	Thr	Ser	Gly	Ile
1				5					10					15	
Glu	Glu	Pro	Ser	Glu	Thr	Lys	Gly	Ser	Met	Gln	Lys	Ser	Lys	Phe	Lys
			20					25					30		
Tyr	Lys	Leu	Val	Pro	Glu	Glu	Glu	Thr	Thr	Ala	Ser	Glu	Asn	Thr	Glu
		35					40					45			
Ile	Thr	Ser	Glu	Arg	Gln	Lys	Glu	Gly	Ile	Lys	Leu	Thr	Ile	Arg	Ile
	50					55					60				
Ser	Ser	Arg	Lys	Lys	Lys	Pro	Asp	Ser	Pro	Pro	Lys	Val	Leu	Glu	Pro
65					70					75					80
Glu	Asn	Lys	Gln	Glu	Lys	Thr	Glu	Lys	Glu	Glu	Glu	Lys	Thr	Asn	Val
				85					90					95	
Gly	Arg	Thr	Leu	Arg	Arg	Ser	Pro	Arg	Ile	Ser	Arg	Pro	Thr	Ala	Lys
			100					105					110		
Val	Ala	Glu	Ile	Arg	Asp	Gln	Lys	Ala	Asp	Lys	Lys	Arg	Gly	Glu	Gly
		115					120					125			
Glu	Asp	Glu	Val	Glu	Glu	Glu	Ser	Thr	Ala	Leu	Gln	Lys	Thr	Asp	Lys
	130					135					140				
Lys	Glu	Ile	Leu	Lys	Lys	Ser	Glu	Lys	Asp	Thr	Asn	Ser	Lys	Val	Ser
145					150					155					160
Lys	Val	Lys	Pro	Lys	Gly	Lys	Val	Arg	Trp	Thr	Gly	Ser	Arg	Thr	Arg
				165					170					175	
Gly	Arg	Trp	Lys	Tyr	Ser	Ser	Asn	Asp	Glu	Ser	Glu	Gly	Ser	Gly	Ser
			180					185					190		
Glu	Lys	Ser	Ser	Ala	Ala	Ser	Glu	Glu	Glu	Glu	Glu	Lys	Glu	Ser	Glu
		195					200					205			
Glu	Ala	Ile	Leu	Ala	Asp	Asp	Asp	Glu	Pro	Cys	Lys	Lys	Cys	Gly	Leu
	210					215					220				
Pro	Asn	His	Pro	Glu	Leu	Ile	Leu	Leu	Cys	Asp	Ser	Cys	Asp	Ser	Gly



225					230					235					240
Tyr	His	Thr	Ala	Cys 245	Leu	Arg	Pro	Pro	Leu 250	Met	Ile	Ile	Pro	Asp 255	Gly
Glu	Trp	Phe	Cys 260	Pro	Pro	Cys	Gln	His 265	Lys	Leu	Leu	Cys	Glu 270	Lys	Leu
Glu	Glu	Gln 275	Leu	Gln	Asp	Leu	Asp 280	Val	Ala	Leu	Lys	Lys 285	Lys	Glu	Arg
Ala	Glu 290	Arg	Arg	Lys	Glu	Arg 295	Leu	Val	Tyr	Val	Gly 300	Ile	Ser	Ile	Glu
Asn 305	Ile	Ile	Pro	Pro	Gln 310	Glu	Pro	Asp	Phe	Ser 315	Glu	Asp	Gln	Glu	Glu 320
Lys	Lys	Lys	Asp	Ser 325	Lys	Lys	Ser	Lys	Ala 330	Asn	Leu	Leu	Glu	Arg 335	Arg
Ser	Thr	Arg	Thr 340	Arg	Lys	Cys	Ile	Ser 345	Tyr	Arg	Phe	Asp	Glu 350	Phe	Asp
Glu	Ala	Ile 355	Asp	Glu	Ala	Ile	Glu 360	Asp	Asp	Ile	Lys	Glu 365	Ala	Asp	Gly
Gly	Gly 370	Val	Gly	Arg	Gly	Lys 375	Asp	Ile	Ser	Thr	Ile 380	Thr	Gly	His	Arg
Gly 385	Lys	Asp	Ile	Ser	Thr 390	Ile	Leu	Asp	Glu	Lys 395	Ile	Ile	Thr		
<210> 281															
<211> 198															
<212> PRT															
<213> Homo sapiens															
<400> 281															
Ser 1	Ser	Glu	Lys	Ser 5	Gly	Ser	Cys	Gly	Gly 10	Met	Met	Phe	Ser	Ile 15	Leu
Ile	Pro	Thr	Tyr 20	Thr	Lys	Arg	Ser	Phe 25	Leu	Arg	Ser	Ala	Arg 30	Ser	Phe
Phe	Phe	Lys 35	Ala	Thr	Ser	Lys	Ser 40	Cys	Asn	Cys	Ser	Ser 45	Asn	Phe	Ser
Gln	Ser 50	Ser	Leu	Cys	Trp	Gln 55	Gly	Gly	Gln	Asn	His 60	Ser	Pro	Ser	Gly
Met 65	Ile	Ile	Arg	Gly	Gly 70	Arg	Arg	Gln	Ala	Val 75	Trp	Tyr	Pro	Leu	Ser 80
Gln	Glu	Ser	His	Arg 85	Arg	Ile	Ser	Ser	Gly 90	Trp	Phe	Gly	Arg	Pro 95	His
Phe	Leu	His	Gly 100	Ser	Ser	Ser	Ser	Ala 105	Arg	Met	Ala	Ser	Ser 110	Leu	Ser
Phe	Ser	Ser 115	Ser	Ser	Ser	Glu	Ala 120	Ala	Asp	Asp	Phe	Ser 125	Leu	Pro	Asp

```
<210> 282
<211> 202
<212> PRT
<213> Homo sapiens
```

Gly 1	Arg	Leu	Pro	Phe 5	Ser	Gly	Arg	Gly	Arg 10	Gly	Lys	Lys	Val	Thr 15	Ser
Gly	Asp	Gly	Val 20	Ala	Ser	Leu	Pro	Leu 25	Lys	Leu	Gly	Arg	Leu 30	Phe	Gly
Gly	Val	Thr 35	Arg	Gly	Phe	Asn	Met 40	Arg	Ile	Glu	Lys	Cys 45	Tyr	Phe	Cys
Ser	Gly 50	Pro	Ile	Tyr	Pro	Gly 55	His	Gly	Met	Met	Phe 60	Val	Arg	Asn	Asp
Cys 65	Lys	Val	Phe	Arg	Phe 70	Cys	Lys	Ser	Lys	Cys 75	His	Lys	Asn	Phe	Lys 80
Lys	Lys	Arg	Asn	Pro 85	Arg	Lys	Val	Arg	Trp 90	Thr	Lys	Ala	Phe	Arg 95	Lys
Ala	Ala	Gly	Lys 100	Glu	Leu	Thr	Val	Asp 105	Asn	Ser	Phe	Glu	Phe 110	Glu	Lys
Arg	Arg	Asn 115	Glu	Pro	Ile	Lys	Tyr 120	Gln	Arg	Glu	Leu	Trp 125	Asn	Lys	Thr
Ile	Asp 130	Ala	Met	Lys	Arg	Val 135	Glu	Glu	Ile	Lys	Gln 140	Lys	Arg	Gln	Ala
Lys 145	Phe	Ile	Met	Asn	Arg 150	Leu	Lys	Lys	Asn	Lys 155	Glu	Leu	Gln	Lys	Val 160
Gln	Asp	Ile	Lys	Glu 165	Val	Lys	Gln	Asn	Ile 170	His	Leu	Ile	Arg	Ala 175	Pro
Leu	Ala	Gly	Lys 180	Gly	Lys	Gln	Leu	Glu 185	Glu	Lys	Met	Val	Gln 190	Gln	Leu
Gln	Glu	Asp 195	Val	Asp	Met	Glu	Asp 200	Ala	Pro						

```
<210> 283
<211> 84
```

<212> PRT  
 <213> Homo sapiens

<400> 283

Ile 1	Ile	His	Cys	Lys 5	Leu	Phe	Thr	Ser	Cys 10	Phe	Pro	Glu	Cys	Phe 15	Gly
Pro	Pro	Asn	Phe 20	Ala	Arg	Ile	Ala	Leu 25	Leu	Phe	Lys	Val	Phe 30	Met	Thr
Phe	Arg	Phe 35	Ala	Lys	Ser	Glu	His 40	Leu	Ala	Ile	Val	Ala 45	Asp	Glu	His
His	Ala 50	Val	Ser	Arg	Ile	Asp 55	Gly	Pro	Arg	Thr	Glu 60	Ile	Thr	Leu	Phe
Asp 65	Thr	His	Val	Glu	Pro 70	Ala	Cys	Asn	Pro	Thr 75	Lys	Gln	Thr	Pro	Lys 80
Leu	Glu	Arg	Lys												

<210> 284  
 <211> 206  
 <212> PRT  
 <213> Homo sapiens

<400> 284

Arg 1	Leu	Glu	Pro	Arg 5	Ser	Val	Thr	Arg	Ser 10	Arg	Arg	Ala	Val	Ser 15	Arg
Leu	Ser	Ala	Arg 20	Pro	Gly	Lys	Val	Ser 25	Ala	Val	Met	Ala	Phe 30	Leu	Ala
Ser	Gly	Pro 35	Tyr	Leu	Thr	His	Gln 40	Gln	Lys	Val	Leu	Arg 45	Leu	Tyr	Lys
Arg	Ala 50	Leu	Arg	His	Leu	Glu 55	Ser	Trp	Cys	Val	Gln 60	Arg	Asp	Lys	Tyr
Arg 65	Tyr	Phe	Ala	Cys	Leu 70	Met	Arg	Ala	Arg	Phe 75	Glu	Glu	His	Lys	Asn 80
Glu	Lys	Asp	Met	Ala 85	Lys	Ala	Thr	Gln 90	Leu	Leu	Lys	Glu	Ala	Glu 95	Glu
Glu	Phe	Trp	Tyr 100	Arg	Gln	His	Pro	Gln 105	Pro	Tyr	Ile	Phe	Pro 110	Asp	Ser
Pro	Gly	Gly 115	Thr	Ser	Tyr	Glu	Arg 120	Tyr	Asp	Cys	Tyr	Lys 125	Val	Pro	Glu
Trp	Cys 130	Leu	Asp	Asp	Trp	His 135	Pro	Ser	Glu	Lys	Ala 140	Met	Tyr	Pro	Asp
Tyr 145	Phe	Ala	Lys	Arg	Glu 150	Gln	Trp	Lys	Lys	Leu 155	Arg	Arg	Glu	Ser	Trp 160
Glu	Arg	Glu	Val	Lys 165	Gln	Leu	Gln	Glu	Glu 170	Thr	Pro	Pro	Gly	Gly 175	Pro
Leu	Thr	Glu	Ala	Leu	Pro	Pro	Ala	Arg	Lys	Glu	Gly	Asp	Leu	Pro	Pro

180								185				190				
Leu	Trp	Trp	Tyr	Ile	Val	Thr	Arg	Pro	Arg	Glu	Arg	Pro	Met			
		195					200					205				
<210> 285																
<211> 139																
<212> PRT																
<213> Homo sapiens																
<400> 285																
Pro	Leu	Val	Pro	Ser	Phe	Pro	Ser	Ala	Val	Ser	Ser	Thr	Val	Leu	Ser	
1				5					10					15		
Trp	Gln	Ser	Asn	Gln	Asp	Thr	Leu	Pro	Ser	Gln	Lys	Asp	Ala	Ser	His	
			20					25					30			
Leu	Ser	Thr	Ile	Leu	Gly	Pro	Cys	Ser	Asn	Arg	Ile	Ser	His	Arg	Arg	
		35					40					45				
Cys	Pro	Gln	Glu	Ser	Gln	Gly	Arg	Cys	Met	Ala	Val	Asp	Ala	Asp	Gly	
	50					55					60					
Thr	Arg	Ile	Leu	Pro	Arg	Pro	Pro	Ser	Ala	Ala	Gly	Trp	Pro	Ser	Pro	
65					70					75					80	
Tyr	Pro	Phe	His	Ser	Tyr	Val	Leu	Gln	Thr	Gly	Leu	Ser	Ser	Asn	Lys	
				85					90					95		
Gln	Ser	Ile	Gly	Ile	Cys	Leu	Ser	Gly	Arg	Thr	Thr	Thr	Arg	Gly	Gly	
			100					105					110			
Val	Ala	Pro	Ala	Tyr	Lys	Ala	Ala	Thr	Pro	Phe	Ala	Asp	Gly	Ser	Gly	
		115					120					125				
Arg	Val	Pro	Thr	Pro	Arg	Thr	Pro	Leu	Arg	Arg						
	130					135										
<210> 286																
<211> 80																
<212> PRT																
<213> Homo sapiens																
<400> 286																
Leu	Met	Met	Thr	Ile	Tyr	Ala	Leu	Ser	Asn	Glu	Phe	Ala	Phe	Lys	Ile	
1				5					10					15		
Asn	Glu	Glu	Gln	Leu	Ser	Phe	Phe	Pro	Leu	Leu	Ser	Val	Gln	Leu	Trp	
			20					25					30			
His	Ala	Gln	Arg	Phe	Leu	Leu	Asp	Ser	Ser	Trp	Ser	Gly	Val	Ile	Pro	
		35					40					45				
Phe	Phe	Phe	Ser	Cys	Ser	Cys	Leu	Pro	Phe	Leu	Tyr	Pro	Pro	Arg	Trp	
	50					55					60					
Arg	Gln	Ile	His	Asp	Leu	Lys	Asp	Thr	Gln	Tyr	Leu	Leu	Asn	Ser	Ser	
65					70					75					80	
<210> 287																
<211> 80																

<213> Homo sapiens

<400> 287

Leu 1	Met	Met	Thr	Ile 5	Tyr	Ala	Leu	Ser	Asn 10	Glu	Phe	Ala	Phe	Lys 15	Ile
Asn	Glu	Glu	Gln 20	Leu	Ser	Phe	Phe	Pro 25	Leu	Leu	Ser	Val	Gln 30	Leu	Trp
His	Ala	Gln 35	Arg	Phe	Leu	Leu	Asp 40	Ser	Ser	Trp	Ser	Gly 45	Val	Ile	Pro
Phe 50	Phe	Phe	Ser	Cys	Ser	Cys 55	Leu	Pro	Phe	Leu	Tyr 60	Pro	Pro	Lys	Trp
Arg 65	Gln	Ile	His	Asp 70	Leu	Lys	Asp	Thr	Gln 75	Tyr	Leu	Leu	Asn	Ser	Ser 80

<210> 288

<211> 206

<212> PRT

<213> Homo sapiens

<400> 288

Arg 1	Leu	Ser	Cys	Ala 5	Gly	Thr	Leu	Ser	Gly 10	Ser	Gly	Pro	His	Pro 15	Ser
Arg	Arg	Leu	Thr 20	Gln	Gly	Arg	Trp	Val 25	Arg	Lys	Ser	Arg	Val 30	Ala	Met
Glu	Lys	Ile 35	Pro	Val	Ser	Ala	Phe 40	Leu	Leu	Leu	Val	Ala 45	Leu	Ser	Tyr
Thr	Leu 50	Ala	Arg	Asp	Thr	Thr 55	Val	Lys	Pro	Gly	Ala 60	Lys	Lys	Asp	Thr
Lys 65	Asp	Ser	Arg	Pro	Lys 70	Leu	Pro	Gln	Thr	Leu 75	Ser	Arg	Gly	Trp	Gly 80
Asp	Gln	Leu	Ile	Trp 85	Thr	Gln	Thr	Tyr	Glu 90	Glu	Ala	Leu	Tyr	Lys 95	Ser
Lys	Thr	Ser	Asn 100	Lys	Pro	Leu	Met	Ile 105	Ile	His	His	Leu	Asp 110	Glu	Cys
Pro	His	Ser 115	Gln	Ala	Leu	Lys	Lys 120	Val	Phe	Ala	Glu	Asn 125	Lys	Glu	Ile
Gln	Lys 130	Leu	Ala	Glu	Gln	Phe 135	Val	Leu	Leu	Asn	Leu 140	Val	Tyr	Glu	Thr
Thr 145	Asp	Lys	His	Leu	Ser 150	Pro	Asp	Gly	Gln	Tyr 155	Val	Pro	Arg	Ile	Met 160
Phe	Val	Asp	Pro	Ser 165	Leu	Thr	Val	Arg	Ala 170	Asp	Ile	Thr	Gly	Arg 175	Tyr
Ser	Asn	Arg	Leu 180	Tyr	Ala	Tyr	Glu	Pro 185	Ala	Asp	Thr	Ala	Leu 190	Leu	Leu

Asp	Asn	Met	Lys	Lys	Ala	Leu	Lys	Leu	Leu	Lys	Thr	Glu	Leu
		195					200					205	

&lt;210&gt; 289

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 289

Gly	Asn	Pro	Glu	Leu	Pro	Trp	Arg	Lys	Phe	Gln	Cys	Gln	His	Ser	Cys
1				5					10					15	
Ser	Leu	Trp	Pro	Ser	Pro	Thr	Leu	Trp	Pro	Glu	Ile	Pro	Gln	Ser	Asn
			20					25					30		
Leu	Glu	Pro	Lys	Arg	Thr	Gln	Arg	Thr	Leu	Asp	Pro	Asn	Cys	Pro	Arg
		35					40					45			
Pro	Ser	Pro	Glu	Val	Gly	Val	Thr	Asn	Ser	Ser	Gly	Leu	Arg	His	Met
	50					55					60				
Lys	Lys	Leu	Tyr	Ile	Asn	Pro	Arg	Gln	Ala	Thr	Asn	Pro			
65					70					75					

&lt;210&gt; 290

&lt;211&gt; 160

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 290

Gly	Gly	Xxx	Gly	Xxx	Gln	Leu	Leu	Xxx	Pro	Xxx	Ala	Xxx	Gln	Gly	Xxx
1				5					10					15	
Pro	Ala	Ala	Ser	Cys	Xxx	Xxx	Gln	Asp	Val	His	Leu	Xxx	Arg	Cys	Xxx
			20					25					30		
Thr	Val	Val	Arg	Trp	Tyr	Gln	Arg	Ile	Thr	Gly	Met	Pro	Xxx	Xxx	Ala
		35					40					45			
Pro	Thr	Arg	Asn	Phe	Ser	Lys	Phe	Gln	Arg	Xxx	Val	Met	Asp	Leu	His
	50					55					60				
Gly	Phe	Pro	Lys	Glu	Xxx	Gly	Gln	Xxx	Glu	Xxx	Gln	Glu	Xxx	Leu	Gln
65					70					75					80
Trp	Glu	Gly	Arg	Ser	Ser	Ser	Gly	Lys	Cys	Arg	Ile	Ser	Xxx	Ser	Xxx
				85					90					95	
Leu	Pro	Xxx	Ser	Thr	Ile	Xxx	Xxx	Phe	Leu	Lys	Xxx	Xxx	Trp	Xxx	Xxx
			100					105					110		
Ile	Arg	Xxx	Gln	Ser	Pro	Xxx	Thr	Trp	Xxx	Arg	Thr	Tyr	Leu	Arg	Leu
		115					120					125			
Gly	Ser	Ile	Ser	Glu	Phe	Ser	Pro	Gly	Ser	Cys	Leu	Pro	Asn	Trp	Leu
	130					135					140				
Glu	Gly	Lys	Pro	Arg	Met	Thr	Xxx	Ala	Lys	Trp	Pro	Lys	Phe	Phe	Leu
145					150					155					160

&lt;210&gt; 291

<211> 150  
 <212> PRT  
 <213> Homo sapiens

<400> 291

Arg 1	His	Xxx	Pro	Leu 5	Xxx	Leu	Gly	Xxx	His 10	Gly	His	Arg	Ala	His 15	Ser
Cys	Leu	Gly	Trp 20	Ser	Gln	Xxx	Ala	Leu 25	Trp	Asp	Xxx	Ala	Trp 30	Gly	Leu
Xxx	Xxx	Xxx 35	Gly	Ser	Xxx	Gln	Xxx 40	Arg	Lys	Lys	Glu	Ala 45	Xxx	Trp	Cys
Val	Xxx 50	Val	Gly	Xxx	Val	Gly 55	Xxx	Cys	Xxx	Xxx	Pro 60	Xxx	Glu	Xxx	Met
Xxx 65	Xxx	Gly	Phe	Glu	Gln 70	Asn	Xxx	Xxx	Gly	Pro 75	Xxx	Asn	Xxx	Xxx	Val 80
Ser	Xxx	Leu	Gly	Xxx 85	Xxx	Xxx	Trp	Asn	Arg 90	Xxx	Ala	Glu	Lys	Asn 95	Met
Xxx	Gly	Cys	Cys 100	Ala	Lys	Xxx	Val	Asn 105	Xxx	Xxx	Met	Asp	His 110	Xxx	Xxx
Gly	Phe	Gln 115	Xxx	Arg	Gln	Ile	Arg 120	Gly	Leu	Cys	Ser	His 125	Ala	His	Thr
Gly	Xxx 130	Asn	Cys	His	Val	Ser 135	Xxx	Ser	Gly	Ser	Asp 140	Thr	Gln	Leu	Cys
Xxx 145	Gly	Leu	Ser	Phe	Met 150										

<210> 292  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 292

Arg 1	Ala	Ala	Lys	Ile 5	Leu	Lys	Gly	Gly	Leu 10	Gln	Glu	Val	Ala	Glu 15	Gln
Leu	Glu	Leu	Glu 20	Arg	Ile	Gly	Pro	Gln 25	His	Gln	Ala	Gly	Ser 30	Asp	Ser
Leu	Leu	Thr 35	Gly	Met	Ala	Phe	Phe 40	Lys	Met	Arg	Glu	Met 45	Phe	Phe	Glu
Asp	His 50	Ile	Asp	Asp	Ala	Lys 55	Tyr	Cys	Gly	His	Leu 60	Tyr	Gly	Leu	Gly
Ser 65	Gly	Ser	Ser	Tyr	Val 70	Gln	Asn	Gly	Thr	Gly 75	Asn	Ala	Tyr	Glu	Glu 80
Glu	Ala	Asn	Lys	Gln 85	Ser										

<210> 293  
 <211> 64

<212> PRT  
 <213> Homo sapiens

<400> 293

Ile	Lys	Ala	Lys	Phe	Asn	Leu	Asn	Ala	Phe	Phe	Phe	Phe	Phe	Leu	Leu
1				5					10					15	
Arg	Ser	Glu	Ile	Gly	Thr	Val	Ile	Leu	Ser	Thr	Glu	Arg	Gln	Thr	Ile
			20					25					30		
Lys	Trp	Ala	Met	Lys	Gly	Gly	Gly	Lys	Val	Leu	Ser	Ile	Val	Arg	Gly
		35					40					45			
Ile	Gln	Pro	Glu	Ile	Lys	Pro	Ile	Tyr	Lys	His	Val	Cys	Ser	Ser	Lys
	50					55					60				

<210> 294  
 <211> 226  
 <212> PRT  
 <213> Homo sapiens

<400> 294

Ala	Ser	Thr	Ile	Met	Asp	Leu	Leu	Phe	Gly	Arg	Arg	Lys	Thr	Pro	Glu
1				5					10					15	
Glu	Leu	Leu	Arg	Gln	Asn	Gln	Arg	Ala	Leu	Asn	Arg	Ala	Met	Arg	Glu
			20					25					30		
Leu	Asp	Arg	Glu	Arg	Gln	Lys	Leu	Glu	Thr	Gln	Glu	Lys	Lys	Ile	Ile
		35					40					45			
Ala	Asp	Ile	Lys	Lys	Met	Ala	Lys	Gln	Gly	Gln	Met	Asp	Ala	Val	Arg
	50					55					60				
Ile	Met	Ala	Lys	Asp	Leu	Val	Arg	Thr	Arg	Arg	Tyr	Val	Arg	Lys	Phe
65					70				75						80
Val	Leu	Met	Arg	Ala	Asn	Ile	Gln	Ala	Val	Ser	Leu	Lys	Ile	Gln	Thr
				85					90					95	
Leu	Lys	Ser	Asn	Asn	Ser	Met	Ala	Gln	Ala	Met	Lys	Gly	Val	Thr	Lys
			100					105					110		
Ala	Met	Gly	Thr	Met	Asn	Arg	Gln	Leu	Lys	Leu	Pro	Gln	Ile	Gln	Lys
		115					120					125			
Ile	Met	Met	Glu	Phe	Glu	Arg	Gln	Ala	Glu	Ile	Met	Asp	Met	Lys	Glu
	130					135					140				
Glu	Met	Met	Asn	Asp	Ala	Ile	Asp	Asp	Pro	Met	Gly	Asp	Glu	Glu	Asp
145					150					155					160
Glu	Glu	Glu	Ser	Asp	Ala	Val	Val	Ser	Gln	Val	Leu	Asp	Glu	Leu	Gly
				165					170					175	
Leu	Ser	Leu	Thr	Asp	Glu	Leu	Ser	Asn	Leu	Pro	Ser	Thr	Gly	Gly	Ser
			180					185					190		
Leu	Ser	Val	Ala	Ala	Gly	Gly	Lys	Lys	Ala	Glu	Ala	Ala	Ala	Ser	Ala
		195					200					205			



Arg Asp  
225

<400> 295

```
<210> 296
<211> 233
<212> PRT
<213> Homo sapiens
```

<400> 296

Lys 1	Pro	Glu	Gly	Ala 5	Arg	Arg	Val	Gln	Phe 10	Val	Met	Gly	Leu	Phe 15	Gly
Lys	Thr	Gln	Glu 20	Lys	Pro	Pro	Lys	Glu 25	Leu	Val	Asn	Glu	Trp 30	Ser	Leu
Lys	Ile	Arg 35	Lys	Glu	Met	Arg	Val 40	Val	Asp	Arg	Gln	Ile 45	Arg	Asp	Ile
Gln	Arg	Glu	Glu	Glu	Lys	Val	Lys	Arg	Ser	Val	Lys	Asp	Ala	Ala	Lys

50					55					60									
Lys 65	Gly	Gln	Lys	Asp	Val 70	Cys	Ile	Val	Leu	Ala 75	Lys	Glu	Met	Ile	Arg 80				
Ser	Arg	Lys	Ala	Val 85	Ser	Lys	Leu	Tyr	Ala 90	Ser	Lys	Ala	His	Met 95	Asn				
Ser	Val	Leu	Met 100	Gly	Met	Lys	Asn	Gln 105	Leu	Ala	Val	Leu	Arg 110	Val	Ala				
Gly	Ser	Leu 115	Gln	Lys	Ser	Thr	Glu 120	Val	Met	Lys	Ala	Met 125	Gln	Ser	Leu				
Val	Lys 130	Ile	Pro	Glu	Ile	Gln 135	Ala	Thr	Met	Arg	Glu 140	Leu	Ser	Lys	Glu				
Met 145	Met	Lys	Ala	Gly	Ile 150	Ile	Glu	Glu	Met	Leu 155	Glu	Asp	Thr	Phe	Glu 160				
Ser	Met	Asp	Asp	Gln 165	Glu	Glu	Met	Glu	Glu 170	Glu	Ala	Glu	Met	Glu 175	Ile				
Asp	Arg	Ile	Leu 180	Phe	Glu	Ile	Thr	Ala 185	Gly	Ala	Leu	Gly	Lys 190	Ala	Pro				
Ser	Lys	Val 195	Thr	Asp	Ala	Leu	Pro 200	Glu	Pro	Glu	Pro	Pro 205	Gly	Ala	Met				
Ala	Ala 210	Ser	Glu	Asp	Glu	Gly 215	Glu	Glu	Glu	Glu	Ala 220	Leu	Glu	Ala	Met				
Gln 225	Ser	Arg	Leu	Ala	Thr 230	Leu	Arg	Ser											

&lt;210&gt; 297

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 297

Leu 1	Met	Pro	Phe	Gln 5	Ser	Gln	Asn	Leu	Gln 10	Glu	Arg	Trp	Leu	Pro 15	Gln				
Arg	Met	Arg	Gly 20	Arg	Arg	Lys	Arg	Leu 25	Trp	Arg	Pro	Cys	Ser 30	Pro	Gly				
Trp	Pro	His 35	Ser	Ala	Ala	Arg	Gly 40	Cys	Leu	Pro	Arg	Trp 45	Val	Cys	Thr				
His	Ser 50	Ser	Gln	Glu	Leu	Pro 55	Phe	Tyr	Val	Ser	Leu 60	Ala	Leu	His	Leu				
Cys 65	Cys	Glu	Asp	Tyr	His 70	Phe	Gly	Glu	Gly	Ser 75	Val	Cys	Leu	Phe	Ser 80				
Phe	Ser	Ala	Gln	Val 85	Leu	Gly	Ser	Gln	Arg 90	Asp	Cys	Ser	Tyr	Lys 95	Ser				
Gly	Ile	Asn	Lys 100	Cys	Ile	Ile	Phe	Arg 105	Ser	Ile	Asp	Arg	Tyr 110	Ile	Leu				

Ile

<2.11> 351

<212> PRT

<213> Homo sapiens

<400> 298

Gly	Leu	Gly	Leu 260	Val	Phe	Val	Ser	Ser 265	Leu	Gly	Ser	Met	Phe 270	Leu	Pro
-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----

Pro	Thr	Thr	Val	Ala	Gly	Ala	Thr	Leu	Tyr	Ser	Val	Ala	Met	Tyr	Gly
		275					280					285			
Gly	Leu	Val	Leu	Phe	Ser	Met	Phe	Leu	Leu	Tyr	Asp	Thr	Gln	Lys	Val
	290					295					300				
Ile	Lys	Arg	Ala	Glu	Val	Ser	Pro	Met	Tyr	Gly	Val	Gln	Lys	Tyr	Asp
305					310					315					320
Pro	Ile	Asn	Ser	Met	Leu	Ser	Ile	Tyr	Met	Asp	Thr	Leu	Asn	Ile	Phe
				325					330					335	
Met	Arg	Val	Ala	Thr	Met	Leu	Ala	Thr	Gly	Gly	Asn	Arg	Lys	Lys	
			340					345					350		

&lt;210&gt; 299

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 299

Arg	Val	Ala	Pro	Ala	Thr	Val	Val	Gly	Gly	Arg	Asn	Ile	Asp	Pro	Asn
1				5					10					15	
Glu	Asp	Thr	Lys	Thr	Arg	Pro	Arg	Pro	Thr	Pro	Arg	Gly	Ala	Pro	Met
			20					25					30		
Phe	Arg	Asn	Phe	Ser	Leu	Gly	Ala	His	Met	Ala	Thr	Val	Glu	Arg	Pro
		35					40					45			
Pro	Thr	Met	Pro	Ala	Val	Tyr	His	Ala	Ala	Leu	Met	Arg	Arg	Gly	Pro
	50					55					60				
Pro	Asn	Ile	Val	Arg	Gly	Ala	Thr	Thr	Ala	Pro	Ile	Thr	Pro	Glu	Cys
65					70					75					80
Ser	Asn	Gln	Ala	Arg	Cys	Phe	Gly	Pro	Gly	Leu	Trp	Ser	Tyr	Gly	Ile
				85					90					95	
Asp	Arg	Thr	Ser	Ile	Pro	Ala	Pro	Thr	Met	Ala	Ala	Lys	Val	Thr	Pro
			100					105					110		
Ile	Val	Thr	Gln	Glu	Pro	Leu	Ile	Met	Lys	Phe	Met	Arg	Thr	Gly	Val
		115					120					125			
Leu	Leu	Ile	Ala	Met	Ala	Asp	Lys	Ala	Val	Lys	Pro	Ile	Leu	Pro	Ala
	130					135					140				
Lys	Tyr	Ile													
145															

&lt;210&gt; 300

&lt;211&gt; 188

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 300

Arg	Arg	Leu	Glu	Val	Ser	Tyr	Arg	Gln	His	His	Phe	Arg	Val	Ser	Leu
1				5					10					15	
Ala	Pro	Trp	Ser	Lys	Met	Ala	Asp	Glu	Ala	Thr	Arg	Arg	Val	Val	Ser

20				25				30							
Glu	Ile	Pro 35	Val	Leu	Lys	Thr	Asn 40	Ala	Gly	Pro	Arg	Asp 45	Arg	Glu	Leu
Trp	Val 50	Gln	Arg	Leu	Lys	Glu 55	Glu	Tyr	Gln	Ser	Leu 60	Ile	Arg	Tyr	Val
Glu 65	Asn	Asn	Lys	Asn	Ala 70	Asp	Asn	Asp	Trp	Phe 75	Arg	Leu	Glu	Ser	Asn 80
Lys	Glu	Gly	Thr	Arg 85	Trp	Phe	Gly	Lys	Cys 90	Trp	Tyr	Ile	His	Asp 95	Leu
Leu	Lys	Tyr	Glu 100	Phe	Asp	Ile	Glu	Phe 105	Asp	Ile	Pro	Ile	Thr 110	Tyr	Pro
Thr	Thr	Ala 115	Pro	Glu	Ile	Ala	Val 120	Pro	Glu	Leu	Asp	Gly 125	Lys	Thr	Ala
Lys	Met 130	Tyr	Arg	Gly	Gly	Lys 135	Ile	Cys	Leu	Thr	Asp 140	His	Phe	Lys	Pro
Leu 145	Trp	Ala	Arg	Asn	Val 150	Pro	Lys	Phe	Gly	Leu 155	Ala	His	Leu	Met	Ala 160
Leu	Gly	Leu	Gly	Pro 165	Trp	Leu	Ala	Val	Glu 170	Ile	Pro	Asp	Leu	Ile 175	Gln
Lys	Gly	Val	Ile 180	Gln	His	Lys	Glu	Lys 185	Cys	Asn	Gln				

&lt;210&gt; 301

&lt;211&gt; 172

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 301

Ser 1	Lys	Phe	Gly	His 5	Ile	Pro	Gly	Pro	Gln 10	Arg	Phe	Glu	Met	Ile 15	Arg
Gln	Ala	Tyr	Phe 20	Ala	Thr	Pro	Val	His 25	Leu	Cys	Cys	Leu	Ser 30	Ile	Gln
Leu	Arg	Asn 35	Cys	Asn	Phe	Trp	Gly 40	Ser	Ser	Arg	Ile	Cys 45	Asp	Arg	Asn
Val	Lys 50	Leu	Asp	Val	Lys	Leu 55	Ile	Phe	Gln	Glu	Val 60	Met	Asp	Ile	Pro
Ala 65	Phe	Ser	Lys	Pro	Pro 70	Ser	Ser	Phe	Leu	Val 75	Gly	Leu	Gln	Ser	Glu 80
Pro	Ile	Val	Val	Ser 85	Ile	Leu	Val	Val	Leu 90	His	Ile	Pro	Asp	Lys 95	Gly
Leu	Ile	Phe	Leu 100	Leu	Gln	Ser	Leu	His 105	Pro	Gln	Leu	Thr	Ile 110	Ser	Gly
Ser	Gly	Val 115	Ser	Leu	Gln	His	Arg 120	Asp	Leu	Arg	His	Asn 125	Thr	Ser	Arg

Gly	Phe	Ile	Arg	His	Leu	Gly	Pro	Gly	Arg	Lys	Arg	Asn	Ala	Glu	Val
	130					135					140				
Val	Leu	Pro	Val	Ala	Tyr	Leu	Lys	Ala	Pro	Ser	Ser	Leu	Leu	Trp	Glu
145					150					155					160
Asp	Glu	Thr	Leu	Gly	Cys	Cys	Lys	Thr	Ser	Phe	Glu				
				165					170						

&lt;210&gt; 302

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 302

Ala	Val	Arg	Arg	Arg	Gly	Ala	Leu	Ser	Leu	Ser	Val	Gly	Ala	Ala	Cys
1				5					10					15	
Gly	Leu	Val	Ala	Leu	Trp	Gln	Arg	Arg	Arg	Gln	Asp	Ser	Gly	Thr	Met
			20					25					30		
Ser	Gly	Phe	Ser	Thr	Glu	Glu	Arg	Ala	Ala	Pro	Phe	Ser	Leu	Glu	Tyr
		35					40					45			
Arg	Val	Phe	Leu	Lys	Asn	Glu	Lys	Gly	Gln	Tyr	Ile	Ser	Pro	Phe	His
	50					55					60				
Asp	Ile	Pro	Ile	Tyr	Ala	Asp	Lys	Asp	Val	Phe	His	Met	Val	Val	Glu
65					70					75					80
Val	Pro	Arg	Trp	Ser	Asn	Ala	Lys	Met	Glu	Ile	Ala	Thr	Lys	Asp	Pro
				85					90					95	
Leu	Asn	Pro	Ile	Lys	Gln	Asp	Val	Lys	Lys	Gly	Lys	Leu	Arg	Tyr	Val
			100					105					110		
Ala	Asn	Leu	Phe	Pro	Tyr	Lys	Gly	Tyr	Ile	Trp	Asn	Tyr	Gly	Ala	Ile
		115					120					125			
Pro	Gln	Thr	Trp	Glu	Asp	Pro	Gly	His	Asn	Asp	Lys	His	Thr	Gly	Cys
	130					135					140				
Cys	Gly	Asp	Asn	Asp	Pro	Ile	Asp	Val	Cys	Glu	Ile	Gly	Ser	Lys	Val
145					150					155					160
Cys	Ala	Arg	Gly	Glu	Ile	Ile	Gly	Val	Lys	Val	Leu	Gly	Ile	Leu	Ala
				165					170					175	
Met	Ile	Asp	Glu	Gly	Glu	Thr	Asp	Trp	Lys	Val	Ile	Ala	Ile	Asn	Val
			180					185					190		
Asp	Asp	Pro	Asp	Ala	Ala	Asn	Tyr	Asn	Asp	Ile	Asn	Asp	Val	Lys	Arg
		195					200					205			
Leu	Lys	Pro	Gly	Tyr	Leu	Glu	Ala	Thr	Val	Asp	Trp	Phe	Arg	Arg	Tyr
	210					215					220				
Lys	Val	Pro	Asp	Gly	Lys	Pro	Glu	Asn	Glu	Phe	Ala	Phe	Asn	Ala	Glu
225					230					235					240
Phe	Lys	Asp	Lys	Asp	Phe	Ala	Ile	Asp	Ile	Ile	Lys	Ser	Thr	His	Asp
				245					250					255	

His	Trp	Lys	Ala 260	Leu	Val	Thr	Lys	Lys 265	Thr	Asn	Gly	Lys	Gly 270	Ile	Ser
Cys	Met	Asn 275	Thr	Thr	Leu	Ser	Glu 280	Ser	Pro	Phe	Lys	Cys 285	Asp	Pro	Asp
Ala	Ala 290	Arg	Ala	Ile	Val	Asp 295	Ala	Leu	Pro	Pro	Pro 300	Cys	Glu	Ser	Ala
Cys 305	Thr	Val	Pro	Thr	Asp 310	Val	Asp	Lys	Trp	Phe 315	His	His	Gln	Lys	Asn 320

&lt;210&gt; 303

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 303

Arg 1	Val	Leu	Cys	Ser 5	Asn	Leu	His	Phe	Cys 10	Ile	Arg	Pro	Ala	Trp 15	Tyr
Phe	Asn	Tyr	His 20	Val	Lys	His	Ile	Leu 25	Ile	Cys	Ile	Asn	Trp 30	Asn	Ile
Met	Lys	Trp 35	Arg	Tyr	Ile	Leu	Ser 40	Phe	Leu	Ile	Phe	Glu 45	Glu	Asp	Ser
Val	Leu 50	Gln	Gly	Glu	Gly	Arg 55	Gly	Ala	Leu	Leu	Gly 60	Ala	Glu	Ala	Ala
His 65	Ser	Ala	Gly	Val	Leu 70	Pro	Pro	Pro	Leu	Pro 75	Gln	Ser	His	Gln	Pro 80
Ala	Arg	Gly	Ala	Asp 85											

&lt;210&gt; 304

&lt;211&gt; 247

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 304

Gly 1	Ser	Ser	Gly	Ser 5	Arg	Phe	Glu	Val	Val 10	Val	Val	Leu	Glu	Glu 15	Arg
Arg	Gly	Gly	Arg 20	Gly	Arg	Gly	Met	Gly 25	Arg	Gly	Asp	Gly	Phe 30	Asp	Ser
Arg	Gly	Lys 35	Arg	Glu	Phe	Asp	Arg 40	His	Ser	Gly	Ser	Asp 45	Arg	Ser	Gly
Leu	Lys 50	His	Glu	Asp	Lys	Arg 55	Gly	Gly	Ser	Gly	Ser 60	His	Asn	Trp	Gly
Thr 65	Val	Lys	Asp	Glu	Leu 70	Thr	Glu	Ser	Pro	Lys 75	Tyr	Ile	Gln	Lys	Gln 80
Ile	Ser	Tyr	Asn	Tyr 85	Ser	Asp	Leu	Asp	Gln 90	Ser	Asn	Val	Thr	Glu 95	Glu

Thr	Pro	Glu	Gly 100	Glu	Glu	His	His	Pro 105	Val	Ala	Asp	Thr	Glu 110	Asn	Lys
Glu	Asn	Glu 115	Val	Glu	Glu	Val	Lys 120	Glu	Glu	Gly	Pro	Lys 125	Glu	Met	Thr
Leu	Asp 130	Glu	Trp	Lys	Ala	Ile 135	Gln	Asn	Lys	Asp	Arg 140	Ala	Lys	Val	Glu
Phe 145	Asn	Ile	Arg	Lys	Pro 150	Asn	Glu	Gly	Ala	Asp 155	Gly	Gln	Trp	Lys	Lys 160
Gly	Phe	Val	Leu	His 165	Lys	Ser	Lys	Ser	Glu 170	Glu	Ala	His	Ala	Glu 175	Asp
Ser	Val	Met	Asp 180	His	His	Phe	Arg	Lys 185	Pro	Ala	Asn	Asp	Ile 190	Thr	Ser
Gln	Leu	Glu 195	Ile	Asn	Phe	Gly	Asp 200	Leu	Gly	Arg	Pro	Gly 205	Arg	Gly	Gly
Arg	Gly 210	Gly	Arg	Gly	Gly	Arg 215	Gly	Arg	Gly	Gly	Arg 220	Pro	Asn	Arg	Gly
Ser 225	Arg	Thr	Asp	Lys	Ser 230	Ser	Ala	Ser	Ala	Pro 235	Asp	Val	Asp	Asp	Pro 240
Glu	Ala	Phe	Pro	Ala 245	Leu	Ala									

&lt;210&gt; 305

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 305

Ser 1	Phe	Gly	Ile	Leu 5	Lys	His	Ala	Lys	Ala 10	Leu	Asn	Arg	Arg	Val 15	His
Lys	Gly	Thr	Arg 20	Val	Val	Leu	Trp	His 25	Pro	Val	Lys	Pro	Glu 30	Leu	Gly
Met	Pro	Leu 35	Gly	His	Pro	His	Gln 40	Glu	Gln	Lys	His	Leu 45	Thr	Cys	Arg
Ser	Cys 50	Cys	His	Gly	Leu	Gly 55	Ala	His	His	Ala	His 60	Val	His	Leu	Val
Leu 65	Pro	Cys	Arg	His	Val 70	Leu	Gly	Gly	Gln	Gly 75	Leu	Gln	Asn		

&lt;210&gt; 306

&lt;211&gt; 293

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 306

Ala 1	Thr	Arg	Gly	Ala 5	Glu	Gln	Asp	Gly	Gly 10	Ala	Ser	Ala	Ala	Arg 15	Pro
Arg	Arg	Arg	Trp	Ala	Gly	Gly	Leu	Leu	Gln	Arg	Ala	Ala	Pro	Cys	Ser



			20				25				30				
Leu	Leu	Pro 35	Arg	Leu	Arg	Thr	Trp 40	Thr	Ser	Ser	Ser	Asn 45	Arg	Ser	Arg
Glu	Asp 50	Ser	Trp	Leu	Lys	Ser 55	Leu	Phe	Val	Arg	Lys 60	Val	Asp	Pro	Arg
Lys 65	Asp	Ala	His	Ser	Asn 70	Leu	Leu	Ala	Lys	Lys 75	Glu	Thr	Ser	Asn	Leu 80
Tyr	Lys	Leu	Gln	Phe 85	His	Asn	Val	Lys	Pro 90	Glu	Cys	Leu	Glu	Ala 95	Tyr
Asn	Lys	Ile	Cys 100	Gln	Glu	Val	Leu	Pro 105	Lys	Ile	His	Glu	Asp 110	Lys	His
Tyr	Pro	Cys 115	Thr	Leu	Val	Gly	Thr 120	Trp	Asn	Thr	Trp	Tyr 125	Gly	Glu	Gln
Asp	Gln 130	Ala	Val	His	Leu	Trp 135	Arg	Tyr	Glu	Gly	Gly 140	Tyr	Pro	Ala	Leu
Thr 145	Glu	Val	Met	Asn	Lys 150	Leu	Arg	Glu	Asn	Lys 155	Glu	Phe	Leu	Glu	Phe 160
Arg	Lys	Ala	Arg	Ser 165	Asp	Met	Leu	Leu	Ser 170	Arg	Lys	Asn	Gln	Leu 175	Leu
Leu	Glu	Phe	Ser 180	Phe	Trp	Asn	Glu	Pro 185	Val	Pro	Arg	Ser	Gly 190	Pro	Asn
Ile	Tyr	Glu 195	Leu	Arg	Ser	Tyr	Gln 200	Leu	Arg	Pro	Gly	Thr 205	Met	Ile	Glu
Trp	Gly 210	Asn	Tyr	Trp	Ala	Arg 215	Ala	Ile	Arg	Phe	Arg 220	Gln	Asp	Gly	Asn
Glu 225	Ala	Val	Gly	Gly	Phe 230	Phe	Ser	Gln	Ile	Gly 235	Gln	Leu	Tyr	Met	Val 240
His	His	Leu	Trp	Ala 245	Tyr	Arg	Asp	Leu	Gln 250	Thr	Arg	Glu	Asp	Ile 255	Arg
Asn	Ala	Ala	Trp 260	His	Lys	His	Gly	Trp 265	Glu	Glu	Leu	Val	Tyr 270	Tyr	Thr
Val	Pro	Leu 275	Ile	Gln	Glu	Met	Glu 280	Ser	Arg	Ile	Met	Ile 285	Pro	Leu	Lys
Thr	Ser 290	Pro	Leu	Gln											
<210> 307															
<211> 208															
<212> PRT															
<213> Homo sapiens															
<400> 307															
Ala 1	His	Arg	Asn	Ser 5	Thr	Ala	Leu	Leu	Glu 10	Gly	Arg	Gly	Leu	Gln 15	Trp

Asp	His	Asp	Ser 20	Gly	Phe	His	Phe	Leu 25	Asn	Lys	Trp	Asn	Cys 30	Val	Ile
Tyr	Gln	Phe 35	Leu	Pro	Ala	Met	Phe 40	Val	Pro	Cys	Cys	Ile 45	Pro	Tyr	Val
Phe	Pro 50	Gly	Leu	Lys	Ile	Pro 55	Val	Ser	Pro	Lys	Met 60	Val	His	His	Val
Gln 65	Leu	Pro	Asn	Leu	Arg 70	Glu	Glu	Ser	Ser	Asp 75	Gly	Phe	Val	Thr	Ile 80
Leu	Ser	Glu	Ala	Asp 85	Cys	Thr	Ser	Pro	Val 90	Ile	Ala	Pro	Phe	Asn 95	His
Gly	Ser	Trp	Ser 100	Glu	Leu	Val	Arg	Pro 105	Glu	Phe	Ile	Tyr	Ile 110	Arg	Ser
Gly	Ser	Trp 115	His	Arg	Leu	Ile	Pro 120	Glu	Thr	Glu	Leu	Gln 125	Gln	Glu	Leu
Ile	Leu 130	Pro	Gly	Glu	Lys	His 135	Val	Thr	Ser	Cys	Leu 140	Thr	Lys	Phe	Gln
Lys 145	Phe	Leu	Ile	Phe	Ser 150	Glu	Phe	Ile	His	Asp 155	Phe	Cys	Glu	Gly	Trp 160
Ile	Ala	Ser	Phe	Ile 165	Pro	Pro	Glu	Val	Asp 170	Ser	Leu	Val	Leu	Leu 175	Ala
Ile	Pro	Arg	Val 180	Pro	Ser	Pro	His	Gln 185	Ser	Thr	Arg	Val	Val 190	Phe	Ile
Phe	Val	Asn 195	Leu	Trp	Gln	His	Leu 200	Leu	Thr	Asn	Phe	Val 205	Val	Cys	Phe